GPLUS EDUCATION

Date Time	:	BIOLOGY
Marks	:	
		PLANT KINGDOM

Single Correct Answer Type In pteridophytes, gametophytes require ...A... to grow a) Cool, damp and shady places b) Dry places d) Water c) Terrestrial area Which one of the following pairs of plants are not seed producers? a) Fern and Funaria b) Funaria and Ficus c) Ficus and Chlamydomonas d) Fern and Pinus A bryophyte, which harbours a nitrogen fixing blue-green alga in its thallus, is a) Pogonatum b) Riccia c) Marchantia d) Anthoceros 4. Rhodophytes are commonly called as a) Blue-green algae b) Red algae c) Brown algae d) Green algae This place in India is called 'The Golden Mine of Liverworts'. c) Western Ghats a) Eastern Himalayas b) Western Himalayas d) Eastern Ghats In the alternation of generations the sporophytic generations is ...A... and the gametophytic generation is 6. ...B... . Here A and B refer to b) A-n; B-2n a) A-2n; B-n c) A-n; B-n d) A-2n; B-2n Chloroplasts of Spirogyra have a) Spiral margin b) Smooth of waxy margin c) Smooth margin d) None of these In *Selaginella* the adaxial outgrowth from the base of leaf is called a) Ligule b) Velum c) Rhizophore d) Glossopodium In *Dryopteris*, the opening mechanism of sporangium is effectively operated by a) Stalk b) Stomium c) Annulus d) None of these 10. Calcium encrustation and larvicidal properties are present in b) Oscillatoria a) Chara c) Diatoms d) Canlerapa 11. Iodine is obtained from a) Laminaria b) Chlorella c) Polysiphonia d) Porphyra 12. Number of archegonia in *Cycas* is c) 1 a) 8 d) 2 13. Which of the following in moss capsule is haploid/gametophytic tissue? a) Annulus and peristome b) Calyptra and spore c) Columella and theca d) Operculum foot and seta 14. In angiosperms seeds are enclosed by a) Flowers b) Fruits c) Ovule d) Parianth 15. Double fertilisation involves a) Syngamy and triple fusion b) Double fertilisation c) Development of antipodal cell d) Development of synergids 16. Which one of the following is a gymnosperm? b) Walnut c) Funaria d) Chilgoza a) Mango

c) Marchantia

d) Moss

17. Which of the following propagates through leaf-tip?

a) Walking fern

b) Sprout-leaf plant

- 18. The spores in the moss plant are formed in
 - a) Foot

b) Seta

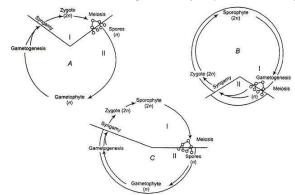
- c) Capsule
- d) Both (b) and (c)

- 19. Antherozoids of Dryopteris are
 - a) Multiciliated and coiled

b) Multiciliated and sickle-shaped

c) Biciliated and coiled

- d) Biciliated and sickle-shaped
- 20. Which has vascular tissue, produces spores but does not have seeds?
 - a) Bryophyta
- b) Pteridophyta
- c) Gymnosperms
- d) Angiosperms
- 21. Which of the following correctly represents the type of life cycle patterns from the options given?



- a) A-Haplontic, B-Diplontic, C-Haplo-diplontic
- b) A-Diplontic, B-Haplontic, C-Haplo-diplontic
- c) A-Haplo-diplontic, B-Diplontic, C-Haplontic
- d) A-Diplontic, B-Haplo-diplontic, C-Haplontic
- 22. Consider the following statements about bryophyte plants
 - I. The tea prepared from *polytrichum commune* is used to dissolve kidney and gall bladder stones
 - II. Many chemical products such as alcohol, ammonium sulphate, paraffin, brown dye, etc., can be obtained from peat

Choose the correct option

a) I is true, II is false

b) II is true, I is false

c) Both I and II are true

d) Both I and II are false

- 23. Moss capsule represents a
 - a) Gametophyte
- b) Sporophyte
- c) Part of protonema
- d) Part of sorus
- 24. The gametophyte is not an independent, free living generation in
 - a) Adiantum
- b) Marchantia
- c) Pinus
- d) Polytrichum

- 25. Which one is not the feature of *Cycas*?
 - a) Unbranched stem
 - b) Pinnate leaves
 - c) The male or female cones may be borne on the different tree
 - d) Archegonia is absent
- 26. The members of brown algae (class-Phaeophyceae) have gelatinous coating outside the, cellulosic cell wall called
 - a) Algin

- b) Glycoalgin starch
- c) Polyalginate
- d) Polyolefin

- 27. In Bryophtya, the adult plant body is
 - a) Sporophyte
- b) Epiphyte
- c) Sporophyll
- d) Gametophyte

- 28. Difference between algae and bryophytes is
 - a) Terrestrial habitat
- b) Sterile jacket
- c) Biflagellate gametes
- d) None of the above
- 29. The correct names of gymnospermic plant *A*, *B* and *C* shown in figure below are







a) A-Cycas, B-Ginkgo, C-Pinus

b) A-Cycas, B-Pinus, C-Ginkgo

	c) A-Ginkgo, B-Cycas, C-Pinus d) A-Pinus, B-Cycas, C-Ginkgo						
30.	Which one of the following is an example of chlorophyllous thallophyte?						
	a) Volvariella b) Spirogyra	c) Nephrolepis	d) Gnetum				
31.	Which of the following is known as pond silk?						
	a) Spirogyra b) Ulothrix	c) Nostoc	d) Anabaena				
32.							
	a) <i>Ectocarpus</i> and <i>Dictyota</i> b) <i>Laminaria</i> and <i>Sargassum</i>						
	c) Fucus and Dictyota	d) <i>Polysiphonia</i> and <i>Gelia</i>					
33.	In pteridophyte, the sporophytes consist of leaf-like						
	a) Megaphylls b) Sporophylls	c) Thalli	d) Sporangia				
34.	Meiosis in Spirogyra, Ulothrix, Chlamydomonas a	and most of the algae/thallo					
	a) Sporic b) Zygotic	c) Gametic	d) Unequal				
35.	In <i>Funaria</i> , stomata are present on the	•					
	a) Stem b) Leaves	c) Capsule	d) Apophysis				
36.	Gymnosperms are characterised by	•					
	a) Multiflagellate sperms	b) Nacked seeds					
	c) Winged seeds	d) Seeds inside fruits					
37.	Which of the statement is correct about <i>Marchanti</i>	a?					
	I. Plant body is thallus-like structures closely attach	ed to substrate					
	II. Sporophyte is differentiated into food, seta and c	apsule					
	III. Gemma cup located on the thalli						
	a) I and II b) I and III	c) II and III	d) I, II and III				
38.	Heterocysts are found in	>					
	a) Cyanophyceae b) Chlorophyceae	c) Phaeophyceae	d) Rhodophyceae				
39.	Mosses occur in moist place because						
	a) The cannot grow on land	b) Their gamete fuses in	water				
	c) They lack vascular tissue d) They lack root and stomata						
40.							
	I. double fertilisation	PETITOIT					
	II. triploid endosperm						
	III. Diploid endosperm						
			Choose the correct option from the following regarding above statements				
	Choose the correct option from the following regard a) I and II are correct	b) I and III are correct					
	Choose the correct option from the following regard a) I and II are correct c) II and III are correct	b) I and III are correct d) I, II and III are correct					
41.	Choose the correct option from the following regard a) I and II are correct c) II and III are correct Read carefully the following statement about the se	b) I and III are correct d) I, II and III are correct					
41.	Choose the correct option from the following regard a) I and II are correct c) II and III are correct Read carefully the following statement about the se I. Water is essential for fertilisation	b) I and III are correct d) I, II and III are correct xual reproduction in ferns					
41.	Choose the correct option from the following regard a) I and II are correct c) II and III are correct Read carefully the following statement about the se I. Water is essential for fertilisation II. Male gametophyte bears antheridia, while female	b) I and III are correct d) I, II and III are correct xual reproduction in ferns	gonium, which produces				
41.	Choose the correct option from the following regard a) I and II are correct c) II and III are correct Read carefully the following statement about the se I. Water is essential for fertilisation II. Male gametophyte bears antheridia, while female antherozoids and egg cell, respectively	b) I and III are correct d) I, II and III are correct xual reproduction in ferns e gametophyte bears archeg	- -				
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	Choose the correct option from the following regard a) I and III are correct c) II and III are correct Read carefully the following statement about the se I. Water is essential for fertilisation II. Male gametophyte bears antheridia, while female antherozoids and egg cell, respectively III. Antherozoids and egg cell fuses to give rise zygo rise to sporophyte Which of the statements given above are correct? a) I and II Which of the following part of <i>Funaria</i> sporophyte	b) I and III are correct d) I, II and III are correct xual reproduction in ferns gametophyte bears arches te. Zygote develops into you c) I and III is involved in the dispersal	ung embryo. Embryo give d) I, II and III of spores?				
42.	Choose the correct option from the following regard a) I and III are correct c) II and III are correct Read carefully the following statement about the se I. Water is essential for fertilisation II. Male gametophyte bears antheridia, while female antherozoids and egg cell, respectively III. Antherozoids and egg cell fuses to give rise zygo rise to sporophyte Which of the statements given above are correct? a) I and II b) II and III Which of the following part of Funaria sporophyte a) Calyptra b) Operculum	b) I and III are correct d) I, II and III are correct xual reproduction in ferns e gametophyte bears arches te. Zygote develops into you c) I and III is involved in the dispersal c) Peristome	ung embryo. Embryo give d) I, II and III of spores? d) Annulus				
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42. 43.	Choose the correct option from the following regard a) I and II are correct c) II and III are correct Read carefully the following statement about the se I. Water is essential for fertilisation II. Male gametophyte bears antheridia, while female antherozoids and egg cell, respectively III. Antherozoids and egg cell fuses to give rise zygo rise to sporophyte Which of the statements given above are correct? a) I and II b) II and III Which of the following part of Funaria sporophyte a) Calyptra b) Operculum InA gametophytic phase is dominant, while in Identify the A and B. choose the correct option a) A-pteridophytes; B-algae c) A-gymnosperm; B-fungi	b) I and III are correct d) I, II and III are correct xual reproduction in ferns gametophyte bears arches te. Zygote develops into you c) I and III is involved in the dispersal c) Peristome .B sporophytic phase in d b) A-bryophytes; B-pteric d) A-angisperms; B-algae	ung embryo. Embryo give d) I, II and III of spores? d) Annulus ominant. dphytes				
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				Opius Luucution		
	c) Bryophytes		d) Gymnosperms			
45.		-	but require presence of wa	nter to complete their life		
	cycle. The water is needed for					
	I. dehiscence of antheridia					
	II. liberation of antherozoids					
	III. transfer of sperms from antheridia to archegonia					
	IV. opening of archegonia	l neck				
	V. the movement of anthe	rozoids into the archegonia	al neck			
	Which of the statements g	given above are correct?				
	a) I, II and IV	b) II, III, IV and V	c) III, IV and V	d) I, II, III, IV and V		
46.	In gymnosperms, the nuc	ellus is protected by envelo	ps and this composite stru	cture is known as		
	a) Ovule	b) Ovary	c) Anther	d) Strobili		
47.	<i>Pinus</i> belong to the class					
	a) Gnetopsida	b) Cycadopsida	c) Coniferopsida	d) Sphenopsida		
48.	In comparition to angiosp	erm, which one of the follo	wing algae exhibits haplo-o	diplontic life cycle		
	a) <i>Volvox</i>	b) <i>Chlamydomonas</i>	c) <i>Ectocarpus</i>	d) <i>Fucus</i>		
49.	Storage bodies, pyrenoids	in the chloroplast contain				
	a) Protein and starch		b) Carbohydrate and prot	ein		
	c) Polysaccharide and pro	otein	d) Starch and lipid			
50.	The red colour of 'red sea	' is due to which of the follo	owing blue-green algae?			
	a) Chlamydomonas	b) Anabaena	c) Microcystis	d) Trichodesmium		
51.	In Funaria, the number o	f peristomial teeth is				
	a) 6	b) 10	c) 16	d) 32		
52.	The members of Phaeoph	yceae are commonly called				
	a) Green-algae	b) Blue algae	c) Brown algae	d) Golden algae		
53.	Two adjacent filaments of	f <i>Spirogyra af f inis</i> each 1	.0 cells participating in rep	roduction. How many new		
	Spirogyra plants are pro	duced during sexual repro	duction?			
	a) 5	b) 10	c) 20	d) 40		
54.	Which group of plant cons	stitute the lower bryophyte	The state of the s			
	a) Liverworts	b) Mosses	c) Anthocerotales	d) Jungermanniales		
55.	Algal zone is present in					
	a) Normal root of Cycas		b) Coralloid root of Cycas	,		
	c) Normal root of <i>Pinus</i>		d) Stem of <i>Cycas</i>			
56.	Isogamy is found in					
	a) <i>Spirogyra</i>	b) <i>Chlamydomonas</i>	c) Both (a) and (b)	d) <i>Fucus</i>		
57.	Cleavage polyembryony o	occurs in				
	a) Pinus	b) Mini <i>Cycas</i>	c) Cycas	d) Ephedra		
58.	Zygote of Spirogyra prod	luces four haploid nuclei in	which			
	a) One is functional	b) Two are functional	c) Three are functional	d) All are functional		
59.	The members of brown al	gae are found primarily in				
	a) Freshwater habitat		b) Marine habitat			
	c) Terrestrial habitat		d) On moist rock			
60.	=	c nitrogen fixing symbiont i				
	a) Cycas	b) Cicer	c) Pisum	d) Alnus		
61.		dominant phase in the life	cycle of	·		
	a) <i>Marchentia</i>	b) Ferns	c) Mosses	d) Liverworts		
62.	Choose the incorrect state	-	•			
			ridia and archegonia, which	h are produced at the apex		
	of the leafy shoots	-	-	-		
	•	tiated into food, seta and ca	psule			

	•		gametophyte after melosis		
		ses is more elaborate than			
63.	3. Gemmae are asexual buds, which originate from small receptacles called gemma cups.				
	These are found in				
	a) <i>Funeria</i>	b) <i>Marchentia</i>	c) <i>Fern</i>	d) <i>Sphagnum</i>	
64.	Tallest flowering tree is				
	a) <i>Pinus</i>	b) <i>Cedrus</i>	c) <i>Sequoia</i>	d) <i>Eucalyptus</i>	
65.	Oogamous means				
	a) Fusion between female	e and male gametes. Both a	re similar in size		
	b) Fusion between one la	rge female gamete and a sr	naller non-motile male gam	iete	
	c) Fusion between one la	rge female gamete and a sr	naller motile male gamete		
	d) Fusion between one sn	naller female gamete and a	large motile male gamete		
66.	Which is wrong in respec	t to bryophytes?			
	a) Water is essential for s	-			
	b) Presence of antheridiu				
	c) Presence of ciliated spe				
		c independent sporophyte			
67.	Nephrolepis is a				
	a) Bryophyte	b) Pteridophyte	c) Gymnosperm	d) Angiosperm	
68.	'Club moss' belongs to				
	a) Algae	b) Pteridophyta	c) Fungi	d) Bryophyte	
69.	Isogamous mean				
	I. both gametes are simila	The second secon	>		
	II. both gametes are dissin				
	III. both gametes are simi				
	-	milar in size and non-moti			
) given above is/are correc			
	a) I and II	b) I and III	c) II and IV	d) Only IV	
70.		•			
	a) Ginkgo	b) Ephedra	c) Cupressus	d) Tsuga	
71.	The amphibians of plant l	_	12.5		
	a) Multicellular non-moti	-	b) Bryophytes with simpl	=	
7 0	c) Unicellular motile alga-		d) Pteridophytes with cor	nplex internal organization	
12.	Female sex organ in a flow	ver is	1-) C1		
	a) Carpel or pistil		b) Carpel or androecium		
72	c) Shot		d) Stamen		
/3.	Which economically impo			d) Dogin	
74	a) Timber	b) Sago	c) Essential oil	d) Resin	
74.	Artificial system of classif				
	a) A-Aristotle; B-anatomi	ct to A and B. choose the co	orrect option		
	b) A-Linnaeus; B-cytologi				
	c) A-Linnaeus; B-morpho				
	d) A-Haeckel; B-morpholo	_			
75.	Sea weeds are important	_			
, J.	a) Chlorine	b) Fluorine	c) Iodine	d) Bromine	
76	Terms artificial, natural a	-		a) Dromme	
, 0.	a) Cytotaxonomy	na phytogenetic are relate	b) Classification of plants		
	c) Classification of animal	ls	d) Both (b) and (c)		
77	Holdfast, stipe and frond				
, , .	1101alast, supe alla li olla	constitutes the plant body	111 0430 01		

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	a) <i>Volvox</i> b) <i>Chara</i>	c) <i>Laminaria</i>	d) <i>Chlamydomonas</i>
78.	In Chlorophyceae, the mode of sexual rep	roduction is	
	a) Anisogamy b) Oogamy	c) Isogamy	d) All of these
79.	The positive evidence of aquatic ancestor	y of bryophytes is indicated by	
	a) Ciliated sperms b) Gametophy	tic body c) Biflagellate gametes	d) Peristomial teeth
80.	In gymnosperm the roots are generally		
	a) Respiratory root b) Prop root	c) Tap root	d) Adventitious root
81.	Which type of chloroplasts are present in	the members of class-Chlorophycea	ae?
	a) Discoid and plate-like	b) Reticulate and cup-s	haped
	c) Spiral or ribbon-shaped	d) All of the above	
82.	Seed habit is linked to		
	a) Homospory b) Heterospor	y c) Parthenogenesis	d) Parthenocarpy
83.	Algae occur in/on		
	a) Fresh and marine water	b) Moist stones	
	c) Moist soils and wood	d) All of these	
84.	Which of the following plant group is con	sidered as first terrestrial plants to	possess vascular tissues
	xylem and phloem?	-	-
	a) Bryophytes b) Pteridophy	ces c) Gymnosperm	d) Angiosperm
85.	At the base of seta of capsule of moss, the	re is a haploid brownish growth cal	led
	a) Calyptra b) Perigonium	c) Vaginula	d) Perichaetial
86.	Sphaerocarpus belongs to		
	a) Bryophyte b) Pteridophy	c) Gymnosperms	d) Angiosperms
87.	Egg apparatus of angiosperms consist of		, , ,
	a) One synergid and two egg cells	b) Two synergids and o	ne egg cell
	c) One central cell, two polar nuclei and t		ar nuclei and three antipodal
	antipodal cells	cells	-
88.	Meiosis in <i>Dryopteris</i> takes place during		
	a) Gamete formation b) Spore germ		d) Spore formation
89.	Which of the following plants produces s		
	a) Maize b) Mint	c) Peepal	d) <i>Pinus</i>
90.	Identify the wrong statements	•	-
	a) The ovule develops into seed	b) The ovary develops i	into fruit
	c) The triple nucleus develops into endos	perm d) Double fertilisation i	s the fusion of male gamete
		with egg	S
91.	Select one of the following pairs of impor	tant features distinguishing <i>Gnetun</i>	n from <i>Cycas</i> and <i>Pinus</i> and
	showing affinities with angiosperms		
	a) Absence of resin duct and leaf venation	1	
	b) Presence of vessel elements and abser	ce of archegonia	
	c) Perianth and two integuments		
	d) Embryo development and apical meris	tem	
92.	From which of the following plants is a m	edicine for respiratory disorders ob	otained?
	a) Ephedra b) Eucalyptus	c) Cannabis	d) Saccharum
93.	In Funaria, antheridial branch is called		
	a) Male flower b) Female hea	d c) Male cone	d) Female cone
94.	Which of the following is not the feature	of gymnosperms?	
	a) Parallel venation	b) Perennial plants	
	c) Distinct branches (long and short bran	ches) d) Xylem with vessels	
95.	The alga used in space research is		
	a) Cephaleuros b) Gelidium	c) <i>Chlorella</i>	d) <i>Gracilaria</i>
96.	The cones bearing megasporophyll with	ovules are called	

	a) Male strobili	b) Female strobili	c) Megasporangia	d) Microsporangia
97.	In Spirogyra the sporoph	nytic stage is dominant		
	a) True		b) False	
	c) Some times (a) and (b)		d) Neither (a) nor (b)	
98.				
	a) Microsporophyll	b) Megasporophyll	c) Macrosporophyll	d) Both (a) and (c)
99.	Of the following groups, w	which secrete and deposit o	calcium carbonate and ap	ppear like corals?
	a) Green algae	b) Brown algae	c) Blue-green algae	d) All of these
100	. In pteridophytes, phloem	is without		
	a) Sieve cells	b) Sieve tubes	c) Companion cells	d) Bast fibres
101	. In algae the flagellate (mo	otile) spore is called		
	a) Aplanospore	b) Endospore	c) Zoospore	d) Akinetes
102	. Ovules of gymnosperm is			
	a) Bitegmic	b) Unitegmic	c) Naked	d) Both (b) and (c)
103	. In the given diagram, part	ts labelled as, A, B, C, D, E a	and F are respectively ide	entified as
	60 B C F A E			
104	c) A-Egg cell, B- Synergids	cell, C-Antipodals, D-Centra s, C- Central cells, D- Filifon nuclei, C- Filiform apparat ial products obtained fron	rm apparatus, E- Antipod us, E-Synergids, F-Egg ce	lals, F- Polar nuclei ll ce-creams and jellies
105	. Phycoerythrin is present i	in		
	a) <i>Polysiphonia</i>	b) <i>Laminaria</i>	c) <i>Kelps</i>	d) <i>Chlamydomonas</i>
106	. Protonema is formed in			
	a) Moss	b) Liverworts	c) Ferns	d) <i>Cycas</i>
107	. Consider the following sta	atements regarding the ma	ajor pigments and stored	food in the different groups of
	algae and select the corre	ct options given.		
	I. In Chlorophyceae, the st	tored food material is stard	ch and the major pigmen	ts are chlorophyll- a and d .
	= · ·	narian is the stored food ar		= *
	III. In Rhodophyceae, flori	idean starch is the stored f	food and major pigments	are chlorophylla- a , d and
	phycoerythrin.			
	a) I is correct, but II and I	II are incorrect	b) I and II are correct, l	out III is incorrect
	c) I and III are correct, bu	t II is incorrect	d) III is correct, but I ar	nd II are incorrect
108	. Read carefully the given s	tatements about algae and	l choose the correct optic	on
	I. The plant body is thallo	id		
	II. Mainly aquatic			
	III. Reproduction takes pla	ace by vegetative, asexual	and sexual	
	IV. Volvox and Ulothrix a	are the colonial form of alg	ae	
	a) I, II and III	b) II, III and IV	c) I, III and IV	d) I, II, III and IV
109	. In angiosperms, the poller	n grains and ovules are pro	oduced in special structu	-
	a) Fruit	b) Seed	c) Flower	d) Lamina

110 Th	1		
a) Red algae	lorophyceae are commonly calle b) Brown algae	ea c) Green algae	d) Blue-green algae
111. Resin and turpenting	, ,	c) dieen aigae	u) blue-gi een algae
a) Teak	b) Oak	c) Eucalyptus	d) Pine
•	n occurs at celled stage.	cj Hucuryptus	a) i me
a) One	b) Two	c) Three	d) Four
•	s a packing material for sending		,
a) It is easily availa		b) It is hygroscopic	and the process of the control
c) It reduces transp		d) It serves as a disinfe	ectant
-	ovule, central cell of the embryo	•	
a) A single haploid		b) One diploid nucleus	
c) One haploid pola		d) One diploid and one	
	of bryophytes compared to othe		
a) They produce sp		0 1 0 1	
b) They lack vascul			
c) They lack roots			
d) There sporophyt	tes is attached to the gametophy	te	
116. <i>Cycas</i> leaflets are			
a) Sessile, straight,	oval	b) Sessile, straight, line	ear-lanceolate
c) Sessile, straight,	spiny	d) Sessile, smooth, twi	sted
117. Which of the follow	ring are called vascular cryptoga	ms?	
a) Pteridophytes	b) Bryophytes	c) Gymnosperms	d) Algae
118. In gymnosperms th	e dominate phase isA They	are heterosporous, prod	uceB andC Here, A, B
and C refers to	. 1		
a) A-sporophyte, B	-haploid microspores, C-haploid	megaspores	
	B-haploid microspores, C-diploi		
	-diploid microspores, C-diploid 1		
	B-diploid microspores, C-haploi	d megaspores	
119. Algae are	GILOS ED G	07114011	
a) Chlorophyll bear	ing autotroph	b) Simple and thalloid	
c) Both (a) and (b)		d) Heterotroph	
120. Consider the follow	_		
	sexually by non-motile spores a		9
	ual reproduction is oogamous an	id accompanied by compl	lex post-fertilisation
developments	ondrava and Dalassinhania Dami	homa Cuasilania and Cal	: d:
	embers are <i>Polysiphonia</i> , <i>Porpl</i>	•	iaium
	eristics are belongs to which clas	-	d) Phadaphyana
a) Chlorophyceae121. In gymnosperm do	b) Phaeophyceae	c) Both (a) and (b)	d) Rhodophyceae
a) Sporophyte	b) Gametophyte	c) Haploid	d) Diploid
	al reproduction takes place by	c) Hapioiu	d) Diploid
	gmentation of thalli		
b) Fragmentation a	~		
	on and spores formation		
d) Isogamy and ani	_		
	ring is the amphibians of the pla	nt kingdom?	
a) Angiosperms	b) Pteridophytes	c) Gymnosperm	d) Byrophytes
	sts worked extensively on chlore		
respectively.		1 /	1 J p J,
I. Iyenger II. Swam	inathan		

			Gpius Eaucation
III. Metha IV. Maheswari			
a) I and IV	b) I and III	c) II and III	d) III and IV
125. Sago starch is obtained fr	om		
a) <i>Cedrus</i>	b) <i>Taxus</i>	c) <i>Pinus</i>	d) <i>Cycas</i>
126. In angiosperms endosper	m is		
a) Haploid	b) Diploid	c) Triploid	d) None of the above
127. Observe the diagrams giv	en below and choose the	correct option out of <i>A</i> of <i>C</i>	, in which all the three items
A, B and C are rightly iden	ntified	•	
₩ B			
5 C 5			
Sells and Is			
5 miles			
a) A-Antheridiophore, B-	Archegoniophore, C-Endo	ospore	
b) A-Archegoniophore, B-	Antheridiophore, C-Gem	ma cup	
c) A- Antheridiophore, B-	Archegoniophore, C-Gen	ıma cup	
d) A-Archegoniophore, B-	· Antheridiophore, C-Seta	cup	
128. Which of the following pt	eridophytes is heterospo	rous in nature?	
a) <i>Selaginella</i> and <i>Salvini</i>		b) <i>Adiantum</i> and <i>Equise</i>	etum
c) <i>Psilotum</i> and <i>Lycopod</i> .		d) <i>Adiantum</i> and <i>Psiloti</i>	
129. Which statement is incorp		,	
a) The male and female s		on the same tree	
b) The male or female str			
c) Male and female sporo			
d) Male and female sporo			
130. Find out the mis-matched		or oblids	
		A A TOTAL A	
a) and sulphur c	ucose ontaining	CATION	
carbohydrate			
Chitin — Polymer of	3		
b) glucosamine			
Pontidoglygan Poly	eaccharida linkad		
Peptidoglycan – Poly	eptides		
Linopolysascharidas	A compley of linid and		
Lipopolysaccharides –	polysaccharide		
121 Crymnognovno avo nalrad			
131. Gymnosperms are naked	seeded plants because	h) Thomaig no avula	
a) There is no fruit	_	b) There is no ovule	1 6
c) There is no fertilization		d) There is no ovary and	iruit
132. Consider the following sta	9 9		1. 1. 11 1 .
	-	prophyll- a and b pigments l	
_		d structures called pyrenoi	ds located in chloroplast.
Food may be stored in fo			
		vision, fragmentation, stolo	ns and tubers
Which of the statements g			
a) I and II	b) I and III	c) II and III	d) I, II and III
133. Stamen consists of			
a) Filament and anther	b) Style and stigma	c) Filament and pistil	d) Anther and pistil
134. Cycads are			
a) Homosporous and dioc	ecious	b) Homosporous and m	onoecious

c) Heterosporous and dioecious

- d) Heterosporous and monoecious
- 135. 'Chilgoza' a gymnospermic seed that is eaten as dry fruit is produced by
 - a) *Pinus roxburghii*

b) Pinus geradiana

c) Ginkgo biloba

- d) Cedrus deodara
- 136. In *Funaria* capsule, dispersal of spores takes place through
 - a) Peristomial teeth
- b) Annulus
- c) Calyptra
- d) Operculum
- 137. The plant body of all bryophytes are haploid and thallus like having
 - a) True root, stem and leaves
 - b) Root-like, leaf-like or steam like structure
 - c) Vascular tissues (xylem and phloem)
 - d) Complex tissues
- 138. Though *Cycas* has two cotyledons, this is not included in dicot because
 - a) Of naked ovule

b) They have megaspore

c) Appears as palm tree

- d) Has compound leaves
- 139. Which one of the following is called maiden-hair fern?
 - a) Dryopteris
- b) Pteris
- c) Adiantum
- d) Lycopodium

- 140. In gymnosperms, the pollen chamber represents
 - a) A cell in the pollen grain in which the sperms are formed
 - b) A cavity in the ovule in which pollen grains are stored after pollination
 - c) An opening in the megagametophyte through which the pollen tube approaches the egg
 - d) The microsporangium in which pollen grains develop
- 141. Cyanobacterium is an algae having
 - a) Blue-green pigment

143. Mannitol is reserve food in

- c) Brown pigment
- 142. A mature pollen grain of *Pinus* has
 - a) 2 cells
- b) 3 cells

- b) Red pigment
- d) Yellow-brown pigment

- - a) Rhodophyceae
- b) Chlorophyceae
- c) Phaeophyceae

c) 4 cells

d) 5 cells

- 144. In pteridophytes spore germinate to give rise to
 - a) Thalloid gametophytes called prothallus
 - c) Thalloid sporocarp

- d) Xanthophyceae

- 145. Gymnosperms include

 - a) Medium-sized trees
- b) Tall tree
- c) Shrubs
- d) All of these

- 146. In homosporous pteridophyte, the gametophyte is
 - a) Vascular

b) Monoecious

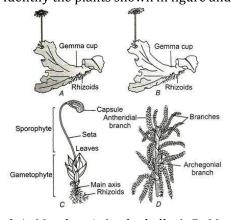
c) Dioecious

d) May be monocious or dioecious

b) Thalloid sporophytes called prothallus

d) Thalloid, photosynthesis sporophyte

147. Identify the plants shown in figure and select the correct option



- a) A-Marchantia (male thallus), B-Marchantia (female thallus), C-Funaria, D-Sphagnum
- b) A-Marchantia (male thallus), B-Marchantia (female thallus), C- Sphagnum, D-Funaria

	c) A- <i>Marchantia</i> (male tha	allus), B- <i>Marchantia</i> (fema	le thallus), C-Polytrichum, I	D-Anthoceros		
	d) A-Marchantia (female t	hallus), B- <i>Marchantia</i> (ma	le thallus), C- <i>Anthoceros</i> , D)- <i>Polytrichum</i>		
148	. Anther produces					
	a) Pollen grains	b) Spores	c) Gametes	d) Egg cell		
149	49. The only positive evidence of aquatic ancestry of bryophyte is					
	a) Thread like protonema		b) Green colour			
	c) Some forms are still aq	uatic	d) Ciliated sperms			
150	The heart-shaped form of	prothallus represents				
	a) Dioecious		b) Monoecious sporophyt	re		
	c) Monoecious gametophy	yte	d) None of the above			
151	. Which of the following sta					
	a) Fronds are found in bry	· ·	b) Multiciliate sperms are	found in angiosperms		
	c) Diatoms produce basid		d) Heterocysts are found			
152	. Classification on the basis	-				
	a) Molecular taxonomy		b) Chemical taxonomy			
	c) Chemotaxonomy		d) Chemosynthetic classif	ication		
153.	. Which of the following live	erworts have thalloid plant				
	a) <i>Marchentia</i>	b) <i>Funeria</i>	c) <i>Sphagnum</i>	d) <i>Pogonatum</i>		
154.	. Phycology is the study of	-,	-) -[,		
101	a) Algae	b) Fern	c) Fungi	d) Bryophytes		
155	. Consider the following sta			uj bi yopiiytes		
155	I. Sexual reproduction is o					
	=	ticellular and jacketed with	storilo iackot			
	_	ytes is dominant stage in tl				
	Which of the statements g		ie me cycle bryophytes			
	a) I and II	b) I and III	a) II and III	d) I II and III		
156	•	1	c) II and III	d) I, II and III		
150	Chlorophyll- b is not prese		A Cuito saute	d) Dlara arraga al arra		
1 - 7	a) Green algae	b) Bryophytes	c) Spirogyra	d) Blue-green algae		
15/	Natural system of classific	cation were based upon	1) []			
	a) Structural embryology		b) Phytochemistry			
450	c) Anatomy		d) All of the above			
158.	Largest moss is	127				
	a) Pogonatum	b) Funaria	c) Dawsonia	d) Polytrichum		
159	Which of the following per		-Pteropsida?			
	a) <i>Equisetum</i> and <i>Psilotum</i>					
	b) <i>Lycopodium</i> and <i>Adian</i>	tum				
	c) Selaginella and Pteris					
	d) <i>Pteris</i> and <i>Adiantum</i>					
160	. <i>Cycas revoluta</i> is popula					
	a) Date palm	b) Sago palm	c) Sea palm	d) Royal palm		
161	. Pteridophytes are also kno	own as				
	a) Cryptogams		b) Vascular crytogams			
	c) Amphibious plants		d) Phanerogams			
162	. Endosperm of gymnosper	m is				
	a) Diploid	b) Tetraploid	c) Haploid	d) None of the above		
163	. Have capacity of absorbin	g water used to replace cot	cton and used as a fuel is			
	a) Marchantia	b) <i>Riccia</i>	c) Sphagnum	d) Funaria		
164	. Which of the following pla	int materials, is an efficient	water imbibant?			
	a) Lignin	b) Pectin	c) Agar	d) Cellulose		
165	The first plants to appear	after a forest fire are the fe	rns this is because of the s	urvival of their		

			Opius Luucution
a) Spores	b) Leaves	c) Fronds	d) Rhizomes
166. If you are asked to classify	y the various algae into dis	tinct groups, which of the f	ollowing characters you
should choose?			
a) Types of pigments pres	sent in the cell	b) Nature of stored food	materials in the cell
c) Structural organizatior	n of thallus	d) Chemical composition	of the cell wall
167. Which of the following is	/are grouped under phane	rogams?	
a) Angiosperms	b) Gymnosperms	c) Pteridophytes	d) Both (a) and (b)
168. Calyptra is derived from			
a) Archegonia	b) Capsule	c) Antheridia	d) Columella
169. Megaspore mother cell di	videsA to give riseB	megaspores	
Identify the A and B and c	hoose correct option		
a) A-mitotically; B-two		b) A-mitiotically; B-four	
c) A-amitotically; B-four		d) A-dinomitotically; B-fo	our
170. In Cycas			
a) Archegonia are presen	t	b) Antheridia are present	t
c) Archegonia are absent		d) Both (a) and (b)	
171. In angiospermic plant pol	len grain reaches to embry	o sac after its germination	onA and throughB
Here A and B refer to			
a) A-anther; B-micropyle		b) A-stigma; B-pollen tub	e
c) A-stigma; B-micropyle		d) A-anther; B-pollen tub	e
172. Largest gametophyte is fo	ound in		
a) Angiosperms	b) Polytrichum	c) Nephrolepis	d) Cycas
173. Which is the source of tur	pentine oil?	>	
a) Gymnospermic wood	b) Angiospermic wood	c) Gymnospermic seed	d) Angiospermic seed
174. What is the ratio of equat	ional division that takes pl	ace in <i>Cycas</i> and angiosper	rms respectively during the
formation of male gamete			
a) 3:2	b) 3:1	c) 2:1	d) 2:3
175. In moss, the sporophyte is	s differentiated into	'ΔΤΙΩΝ	
a) Seta and capsule	ALTOS ED 64	b) Foot and seta	
c) Protonema, foot and ca	psule	d) Foot, seta and capsule	
176. In algae, sexual reproduct	-	e fusion of two	
a) Spores	b) Fragments	c) Gametes	d) Zoospores
177. In <i>Spirogyra</i> , sometimes	a ladder-like structure is p	oresent due to	
a) Vegetative reproduction	on	b) Asexual reproduction	
c) Lateral conjugation		d) Scalariform conjugation	on
178. Embryo sac consists of			
a) One egg cell		b) Two synergids	
c) Three antipodal and tw	-	d) All of the above	
179. Triple fusion in angiosper		-	
a) Two polar nuclei (seco	ndary nucleus)	b) Two antipodal cells	
c) One antipodal cell		d) Antipodal cell and one	synergid cell
180. Carpel consists of			
a) Style and stigma		b) Style, stigma and pistil	
c) Style, anther and pistil		d) Anther, style and stign	
181. Which of the following is			
a) Both are gymnosperms	5		yledons, whereas dicot have
		one cotyledons	
	rledons whereas dicot have	e d) Monocot plants have o	
two cotyledons			o egg cell in embryo sac
182. Which of the following ch	aracteristic does not occur	in <i>Pinus</i> ?	

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a) The number of needles in a spur of Pinus roxbur	a) The number of needles in a spur of <i>Pinus roxburghii</i> is three				
b) Each vascular bundle in the long shoot of Pinus of	consists of xylem facing tow	ards the centre of the shoot			
c) Microsporophyll of <i>Pinus</i> bears two microsporar	•				
d) <i>Pinus</i> is a homosporous gymnosperm					
183. Bryophytes are called amphibians of plant kingdom	because				
a) Their reproductive phase requires water	b) Their sex organs are m	ulticellular and jacketed			
c) They have tracheids	d) All of the above	·			
184. Calyptra develops from					
a) Venter wall of archegonium	b) Outgrowth of gametop	hyte			
c) Neck wall of archegonium	d) Paraphysis of the arch				
185. Species of <i>Sphagnum</i> , a moss, provides	, 1 ,				
a) Oil, that have long been used as fuel	b) Peat (fuel)				
c) Agar-agar	d) Antibiotic				
186. Spirogyral lateral conjugation takes place in	,				
a) Heterosporous species	b) Homosporous species				
c) Heterothallic species	d) Homothallic species				
187. Which one of the following classes is included under	•				
a) Lycopsida b) Bryopsida	c) Cycadopsida	d) Pteropsida			
188. Study the following and identify two characters four		_			
I. Formation of motile male gametes.	na m both cycus and r tert	5.			
II. Formation of haploid endosperm.					
III. Formation of sporophyte directly from gametop.	hyte without gametic union	1			
IV. Formation of archegonia in female gametophyte.	· ·				
The correct match is					
a) I and IV b) I and III	c) II and IV	d) III and IV			
189. Iodine is found in algae	c) if and iv	u) III anu IV			
a) <i>Ulva</i> b) <i>Ulothrix</i>	c) Chlorella	d) Laminaria			
190. The members of algae reproduce by	cj chioreila	a) Laminaria			
a) Vegetative method b) Asexual method	c) Sexual method	d) All of these			
191. Consider the following statements about sexual rep		d) All of these			
I. Sexual reproduction may be orgamous isogamous	-				
	_				
II. Union of gametes take place in water or within th	=				
III. The gametes are pear-shaped and bear two later	any attached hagena				
Which of the statements given above are correct?	a) II am d III	4) 1 11 4 111			
a) I and II b) I and III 102. Which of the following is brown as (begreen):	c) II and III	d) I, II and III			
192. Which of the following is known as 'bog moss'?) C. l	1) D 11			
a) Polytrichum b) Funaria	c) Sphagnum	d) Porella			
193. Which of the following has multiflagellate sperms?	-) I	1) Authorized			
a) Equisetum b) Riccia	c) Lycopodium	d) Anthoceros			
194. Angiospermic plants are divided into	1224				
a) Dicot	b) Monocot				
c) Both (a) and (b)	d) Heart wood plant and	sapwood plant			
195. Cycas seed is					
a) Dicotyledonous	b) Monocotyledonous				
c) Dicotyledonous, non-endospermic	d) Monocotyledonous, en	idospermic			
196. The correct statements about bryophytes are					
I. the sperms are biflagellate					
II. the sperms are released into water and fuses with the egg to produce the zygote out side the body					
III. zygotes undergoes reduction division immediate					
IV. they produce a multicellular body called a sporophyte					

				Coluc Education
2)	I, II and III	b) I, II and IV	c) I and IV	Gplus Education d) III and IV
-		pteridophytes belong to cl	•	u) iii anu iv
	Equisetum and Psilot		ass recropsiaa.	
-	Lycopodium and Adia			
-	Selaginella and Pteris			
-	Pteris and Adiantum			
-		cophyte in <i>Selaginella</i> is		
	12 cells of antheridium		b) 10 cells of antheridiun	n + 3 prothallial cells
-	8 cells of antheridium	_	d) None of the above	•
		dominant generation is		
a)	Sporophyte	b) Gametophyte	c) Both (a) and (b)	d) None of the above
200. Cai	rrageenin, a jelly-like s	ubstance is obtained from		
a)	Chondrus	b) <i>Fucus</i>	c) Sargassum	d) <i>Ulothrix</i>
201. Wł	nile entering in the nec	k of a fern archegonium, sp	perms shows	
a)	Phototaxy	b) Chemotaxy	c) Thermotaxy	d) Cyclosis
202. Wł	nich one of the followin	g plants is monoecious?		
a) .	Marchantia	b) <i>Pinus</i>	c) Cycas	d) Papaya
		ries 16 chromosomes. The	number of chromosomes in	its endosperm is
a)		b) 16	c) 12	d) 8
	a and coffee are affecte	•		
-	Phytophthora	b) Cephaleuros	c) Herviella	d) Albugo candida
	- -	oups of algae do not have o		
_	Green algae	b) Blue-green algae	c) Red algae	d) Golden-brown algae
206. In	gymnosperms, during j	pollination pollen grains a	re released from the micros	porangium and transferred
to		~		
-	Opening of the ovule	2.	b) Archegonia	
c)	Ovary		d) Stigma	

207. In *Funaria*, the stomata are found on a) Foot b) Seta

d) All of these

208. Diatoms belong to which class?

a) Phaeophyceae

b) Bacillariophyceae

c) Chlorophyceae

d) Xanthophyceae

209. Which of the following statement is correct about the gametophytic stage in the alteration of generation with in the life cycle?

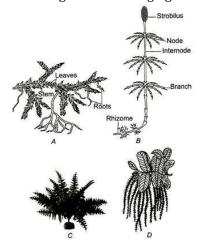
a) Generation that produces the gametes

b) Generation that produces the spores

c) Generation that produces vascular tissue

d) The diploid generation

210. Go through the following figures and identify these plants (A, B, C and D)



a) A-Equisetum, B-Selaginella, C-Fern, D-Salvinia

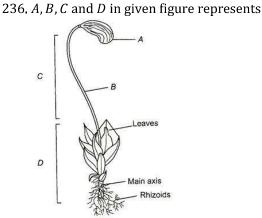
b) A-Selaginella, B-Equisetum, C-Fern, D-Salvinia c) A- Fern, B-Salvinia, C- Equisetum, D-Selaginella d) A-Salvinia, B- Equisetum, C-Fern, D-Selaginella 211. Transfer of pollen grain from anther to the stigma of ovary is called b) Pollination d) Allogamy a) Autogamy c) Syngamy 212. Which of the following gymnosperms is a bushy trailing shrub? a) Ephedra b) Cycas d) Araucaria 213. Which of the following taxa shows zooidogamous oogamy? I. Spirogyra II. Funaria III. Pteris IV. Cycas c) I, II and IV a) I, II and III b) I, III and IV d) II, III and IV 214. Which of the following options correctly identifies the plants their groups from the following structure? Sporophyte Branches Antheridia Sametophyte Anthegonial a) A-Funaria-Moss; B-Sphagnum-Moss b) A-Funaria-Liverwort; B-Sphagnum-Moss c) A-Selaginella-Bryophytes; B-Funaria-Liverwort d) A-Selaginella-Pteridophytes; B-Funaria-Moss 215. Smallest flowering plant is b) Wolffia c) Tulip a) Ginkgo d) Sweet bay 216. Gymnosperms lack fruits, why? a) Seeds absent b) Ovule absent c) Ovary absent d) Ovary fused 217. Funaria, Polytrichum and Sphagnum are the examples of a) Liverworts b) Ferns d) Pteridophytes c) Mosses 218. Pollen sac in Cycas is called b) Megasporangium c) Microsporophyll d) Microsporangium a) Megasporophyll 219. Chlorenchyma is known to develop in the a) Spore capsule of a moss b) Pollen tube of *Pinus* c) Cytoplasm of Chlorella d) Mycelium of a green mould such as Aspergillus 220. Bryophytes are also called 'amphibians of the plant kingdom' because a) Water is essential for reproduction b) They are occur in only water c) These plants can live in soil but are dependent on water for sexual reproduction d) Water is essential for spore formation 221. Phylogenetic system of classification was given by a) Engler and Prantl b) Aristotle c) Linnaeus d) Bentham and Hooker 222. Which was first photosynthetic organism? a) Green algae b) Red algae c) Cyanobacteria d) None of these 223. Male and female gametophytes are independent and free-living in a) Mustard b) Castor c) Pinus d) Sphagnum 224. Chlamydomonas, Volvox, Ulothrix, Spirogyra and Chara are the examples of a) Class-Chlorophyceae (green algae) b) Class-Phaeophyceae (brown algae)

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c) Class-Rhodophyceae (red algae)

d) Class-Cyanophyceae (blue-green algae) and Chlorphyceae 225. Consider the following statements I. Agar, one of the commercial products obtained from Gelidium and Gracilaria are used to grow microbes and in preparations of ice-creams and jellies II. Chlorella and Spirogyra are used in sewage disposal ponds III. Some species of marine algae like Porphyra, Laminaria and Sargassum are used as food Which of the statements given above are correct? a) I and II b) I and III c) II and III d) I, II and III 226. In gymnosperm, the multicellular female gametophyte is retained with in a) Microsporangium b) Megasporangium c) Male gametophyte d) Archegonia 227. Choose the wrong pair a) Hepaticopsida - Marchantia b) Lycopsida - Selaginella d) Pteropsida - Dryopteris c) Bryopsida - Anthoceros 228. Cycas circinalis is a source of a) Resin b) Timber c) Essential oil d) Starch 229. The endosperm in angiosperms develops from b) Secondary nucleus a) Zygote c) Chalazal polar nucleus d) Micropylar polar nucleus 230. A microsporophyll in Pinus has a) One microsporangium on the adaxial side b) One microsporangium on the abaxial side c) Two microsporangia on the abaxial side d) Two microsporangia on the adaxial side 231. The algae used in space research is a) Cephaleuros b) Gelidium c) Chlorella d) Gracilaria 232. Horse tails and ferns are belongs to c) Mosses a) Gymnosperms b) Bryophytes d) Pteridophytes 233. Chloroplasts, with pyrenoid like structures are found in the leaves of a) Funaria b) Cycas c) Selaginella d) Zea mays 234. Bryophytes mostly occur in a) Dry area b) Terrestrial area c) Humid, damp and shaded localities d) in water 235. The number of prothallial cells in male gametophyte of Pinus is

a) 2 b) 1



- a) A-Apophysis, B-Capsule, C-Sporophyte, D-Gametophyte
- b) A-Capsule, B-Seta, C-Sporophyte, D-Gametophyte
- c) A-Apophysis, B-Seta, C-Gametophyte, D-Sporophyte
- d) A-Apophysis, B-Capsule, C-Gametophyte, D-Sporophyte
- 237. The body structure of green algae may be
 - a) Colonial
 - b) Unicellular
- c) Filamentous

c) 3

d) All of these

d) 0

238. Which of the following gymnospermic corolloid roo	_	= :
a) <i>Pinus</i> b) <i>Cycas</i>	c) <i>Cedrus</i>	d) <i>Ginkgo</i>
239. Natural system of classification was developed by		
a) Linnaeus		
b) Engler and Prantl		
c) Bentham and Hooker		
d) Aristotle		
240. Angiosperms differ from gymnosperms in having		
a) Fruits b) Cotyledon	c) Tracheids	d) Broad leaves
241. Consider the following statements regarding gymner		
I. In gymnosperms, the male and female gametophy	=	
II. The multicellular female gametophyte is retained	d within the megasporangi	um.
III. The gymnosperms are hterosporous.		
Of these statements		
a) I and II are true but III is false	b) I and III are true but I	I is false
c) II and III are false but I is true	d) II and III are true but	I is false
242. Pollen tube carries		
a) Two male gametes b) One male gamete	c) Three sperms	d) Four sperms
243. 'Sanjeevani booti' is		
a) Selaginella kraussiana	b) Selaginella chrysoco	aculos
c) Selaginella bryopteris	d) None of the above	
244. <i>Dryopteris</i> differs from <i>Funaria</i> in having		
a) An independent gametophyte	b) An independent spore	ophyte
c) Swimming antherozoids	d) Archegonia	
245. Retort cells occur in		
a) Funaria b) Pogonatum	c) Porella	d) Sphagnum
246. Chlamydomonas occurs in		
246. <i>Chlamydomonas</i> occurs in a) Freshwater b) Ponds and lake	c) River	d) Ocean
	c) River	d) Ocean
a) Freshwater b) Ponds and lake	c) River b) The apoplast is the sy	•
a) Freshwater b) Ponds and lake 247. Select the correct statements.	PHILOIA	•
 a) Freshwater b) Ponds and lake 247. Select the correct statements. a) Absorption of water by seeds and dry wood are examples of facilitated diffusion Pinus seeds cannot germinate and establish 	b) The apoplast is the sy	rstem of interconnected
a) Freshwaterb) Ponds and lake247. Select the correct statements.a) Absorption of water by seeds and dry wood are examples of facilitated diffusion	b) The apoplast is the sy protoplasts	rstem of interconnected
 a) Freshwater b) Ponds and lake 247. Select the correct statements. a) Absorption of water by seeds and dry wood are examples of facilitated diffusion Pinus seeds cannot germinate and establish 	b) The apoplast is the sy protoplasts d) The translocation in p whereas in the xylem	estem of interconnected ohloem is unidirectional, it is bidirectional
 a) Freshwater b) Ponds and lake 247. Select the correct statements. a) Absorption of water by seeds and dry wood are examples of facilitated diffusion c) Pinus seeds cannot germinate and establish without the presence of mycorrhizae 248. The members of Chlorophyceae are usually green of a) Chlorophyll-a 	b) The apoplast is the sy protoplasts d) The translocation in p whereas in the xylem	estem of interconnected ohloem is unidirectional, it is bidirectional
 a) Freshwater b) Ponds and lake 247. Select the correct statements. a) Absorption of water by seeds and dry wood are examples of facilitated diffusion c) Pinus seeds cannot germinate and establish without the presence of mycorrhizae 248. The members of Chlorophyceae are usually green of the presence of the pres	b) The apoplast is the sy protoplasts d) The translocation in p whereas in the xylem ue to the dominance of pig	estem of interconnected ohloem is unidirectional, it is bidirectional
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 a) Freshwater b) Ponds and lake 247. Select the correct statements. a) Absorption of water by seeds and dry wood are examples of facilitated diffusion Pinus seeds cannot germinate and establish without the presence of mycorrhizae 248. The members of Chlorophyceae are usually green of a) Chlorophyll-a c) Chlorophyll-a and b 249. Winged pollen grains are found in a) Cycas b) Pinus 250. Which region is responsible for origin of rhizoids in a) Lateral region b) Dorsal region 	b) The apoplast is the sy protoplasts d) The translocation in p whereas in the xylem ue to the dominance of pig b) Chlorophyll-b d) Chlorophyll-c c) Pteris	ohloem is unidirectional, it is bidirectional gments d) Selaginella
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a) Freshwater 247. Select the correct statements. a) Absorption of water by seeds and dry wood are examples of facilitated diffusion Pinus seeds cannot germinate and establish without the presence of mycorrhizae 248. The members of Chlorophyceae are usually green of a) Chlorophyll-a c) Chlorophyll-a c) Chlorophyll-a and b 249. Winged pollen grains are found in a) Cycas b) Pinus 250. Which region is responsible for origin of rhizoids in a) Lateral region b) Dorsal region 251. Endosperm formation begin with a) The establishment of the suspensor b) The fusion of the antipodals c) The fertilisation of the polar nuclei d) The syncytial development of the embryo 252. Gametophyte is the dominant phase in the life cycle a) Hibiscus b) Nephrolepis	b) The apoplast is the sy protoplasts d) The translocation in p whereas in the xylem ue to the dominance of pig b) Chlorophyll-b d) Chlorophyll-c c) Pteris Funaria? c) Ventral region	ohloem is unidirectional, it is bidirectional gments d) Selaginella d) Basal region

	I. The liverworts grow usi	ıally in moist, shady habita	ts such as banks of streams	, marshy ground, damp
	soil, bark of trees and deep in the woods			
	II. The leafy members of li	verwort have tiny leaf-like	appendages in two rows or	n the stem-like structures
	Choose the correct option			
	a) I is true, II is false	b) I is false, II is true	c) I and II are true	d) I and II are false
255.	The giant red wood tree (Sequoia) is a/an		
	a) Angiosperm	b) Fern	c) Pteridophyte	d) Gymnosperm
256.		itements is wrong about br		, , , , , , , , , , , , , , , , , , ,
	a) Fertilization takes plac	_		
	b) Gametophytic place is o	=		
		gically dependent on game	tophyte	
		osis to produce sporophyte		
	Choose the correct statem			
	I. In liverworts sexual rep	roduction occurs by the fus	sion of antherozoids and eg	g, which are produced in
	anthridium and archegon		0.	
	· ·	•	on same thalli or different tl	nalli
			ated into food, seta and cap	
		indergoes meiosis and give	•	
	a) I, II and III	b) II, III and IV	c) I, III and IV	d) I, II, III and IV
258.	Spore dissemination in so	•	,	, , ,
	a) Elaters	b) Indusium	c) Calyptras	d) Peristome teeth
259.	•	l from a single cell, it is call		,
	a) Leptosporangiate	b) Eusporangiate	c) Heterosporangiate	d) Monosporangiate
	Dispersal of spores in ferr		1 0	, 1 8
	a) Annulus	b) Stomium	c) Both (a) and (b)	d) Indusium
261.			lgae due to the presence of	-
	a) <i>r</i> -phycoerythrin	b) <i>r</i> -xanthophyll	c) Phycoerythrin	d) Fucoxanthin
	A protein rich green alga i		ATION	
	a) Chlorella	b) Spirulina	c) Spirogyra	d) <i>Ulothrix</i>
	Water bloom is generally	caused by	,	
	a) Green algae	b) Blue-green algae	c) Bacteria	d) Hydrilla
264.	Phylogenetic system of cla	assification is based upon		•
	a) Evolutionary relationsl	-	b) Cytological information	
	c) Structural embryology	. 0	d) All of the above	
265.	Both heterospory and circ	cinate ptyxis occur in	,	
	a) Dryoteris	b) Pinus	c) Cycas	d) Funaria
	In <i>Pinus</i> , the endosperm i			
	a) Haploid	b) Diploid	c) Triploid	d) Tetraploid
267.		present in the members of		
	a) One	b) Two	c) One to many	d) Pyrenoids are absent
268.	Choose the incorrect state	ement		
	a) Double fertilisation is u	inique to gymnosperms and	d monocotyledons	
	=	n, is one of the tallest trees	•	
			carotenoids and xanthophy	lls
			es namely, protonema stag	
269.	A protein rich blue-green	_		, 0
	a) <i>Chlorella</i>	b) <i>Spirulina</i>	c) <i>Spirogyra</i>	d) <i>Ulothrix</i>
270.	Spores with chloroplast is		. 1 00	•
	a) Selaginella	b) Equisetum	c) Puccinia	d) Rhizopus
271.	The leaves in pteridophyt	•	•	

			Opius Luucution
a) <i>Volvox</i>	b) <i>Marsilia</i>	c) <i>Selaginella</i>	d) <i>Azolla</i>
272. In bryophytes anthe	ridium producesA and fe	male sex organ archegoniu	m producesB Here A and
B refer to			
a) A-uniflagellate an	therozoids; B-two egg	b) A-biflagellate anthe	rozoids; B-one egg
c) A-non-motile antl	nerozoids; B-one egg	d) A-non-motile anthe	rozoids; B-two egg
273. In case of heteropore	ous pteridophyte the gametop		
a) Always dioecious		b) Monoecious	
c) May be monoecio	us or dioecious	d) Vascular	
274. Oogamous type of fu		,	
a) <i>Volvox</i> and <i>Fucus</i>		c) <i>Spirogyra</i>	d) All of these
275. Fern gametophyte b	, ,	, 1 0	,
a) Archegonia	b) Antheridia	c) Sporangia	d) Both (a) and (b)
	inant stage in the life cycle of		
a) Bryophyta	b) Pteridophyta	c) Angiosperms	d) Gymnosperms
277. The plant body of br		e) imgreeperme	a, a, mesperme
a) More differentiate			
b) Equally differenti	_		
c) Less differentiate	_		
d) Is not differentiat			
<u> </u>	development of grains take p	alace with in the	
a) Megasporangia	development of grams take p	place with in the	
b) Microsporangia			
c) Male gametophyt			
d) Female gametophy		2	
	ilisation, one male gamete fus	eac with agg to form A	this event is called P
- -		ses with egg to formA,	this event is calledb
	choose the correct option		
a) A-endosperm; B-s		CATTON	
b) A-zygote; B-synga		CATION	
c) A-embryo; B-tripl	C lusion		
d) A-endosperm; B-t	•	! !	
	basis of all observed characte		
a) Number and code		b) Numerical taxonom	
c) Countable taxono	-	d) Numerical informat	ion taxonomy
	and Chlamydomonas shows	13 70 1 11 116 1	
a) Haplontic life cycl		b) Diplontic life cycle	1
c) Haplo-diplontic li		d) Diplobiontic life cyc	le
282. When moss spores g) P	2.51.
a) Leafy gametophy		c) Protonema	d) Rhizoids
283. A fern differs from a	~		
a) Swimming archeg		b) Swimming antheroz	
c) Independent gam		d) Independent sporop	-
	number in the leaf of Funaria	is 20, what will be the chro	omosome number in the
spores?			
a) 10	b) 40	c) 20	d) 5
285. Pteridophytes differ			
a) Motility of sperms	3	b) Vasculature	
c) Archegonia		d) Alternation of gener	ation
286. <i>Cycas</i> stem shows			
a) Porous wood	b) Manoxylic wood	c) Pycnoxylic wood	d) Ring porous wood
287. In which group of th	e following would you place t	he plants having vascular t	issue and lacking seeds?

			Gplus Education		
a) Algae	b) Fungi	c) Bryophytes	d) Pteridophytes		
288. In brown algae, food is	stored in the form of				
a) Mannitol	b) Laminarin starch	c) Both (a) and (b)	d) Algin		
289. Haploid brown, hairlik	e, delicate unicellular outgr	owths are			
	a) Root hairs of gymnosperms b) Paraphysis of mosses				
c) Root nodules of puls	ges	d) Rhizoids of fern plant	ts		
290. Gymnosperms produce					
a) Embryo	b) Ovary	c) Ovule	d) Seed		
291. In mosses the second g	ametophytic stage is leafy s	tage. Consider the following	g statements about leafy		
stage			-		
	ed from the secondary prot	onema as a lateral bud			
	ght, slender axes bearing sp				
-	o the soil through multicellu	•			
IV. This leafy stage bea	_				
	ts given above are correct?				
a) I, II and III	b) I, III and IV	c) II, III and IV	d) I, II, III and IV		
292. Alginic acid is found in	•				
a) Gigartina	b) <i>Laminaria</i>	c) Gelidium	d) Scytonema		
293. Incorrect character of l		,			
a) Chlorophyll- a and b		b) They remain attached	d		
c) Chlorophyll- a and c	_	d) Presence of fucoxantl			
294. Plants forming spores					
a) Gymnosperms	b) Angiosperms	c) Bryophytes	d) Pteridophytes		
295. Living fossil is	.,	yy	and a second property		
a) Ginkgo biloba	b) Gnetum ulva	c) Pinus roxburghii	d) Cycas revoluta		
296. Acetabularia is a		,			
a) Single-celled marine	green alga	b) Multicelled marine gr	een alga		
c) Single-celled freshw		d) Multicelled freshwate			
297. Which of these is mism		CHITOIA	0 0		
a) Phaneros - Visible		b) Kryptos - Concealed			
c) Gymno - Naked		d) Bryon - Liverworts			
298. The sclerenchyma of th	ne hypodermis in the <i>Pinus</i>	· ·			
•	ptive surface of the cell	b) Checking transpiration	on		
c) Mechanical support	-	d) Photosynthesis			
299. Most algal genera are h		•	e haplo-diplontic. Here A, B		
and C refers to	•		•		
a) A- <i>Ectocarpus</i> , B- <i>Pol</i>	ysiphonia, C-Kelps				
b) A- <i>Volvox</i> , B- <i>Spirogy</i>	= =				
	siphonia, C-Ectocarpus				
d) A- <i>Volvox</i> , B- <i>Kelps</i> , C	Ectocarpus				
300. From which of the follo	-	nmercially extracted?			
I. Gracilaria II. Fuci		•			
III. Sargassum IV. Geli	dium				
V. Turbinaria					
a) III and V	b) II and III	c) IV and V	d) I and IV		
_	-	•	called multicellular that		
bears two or more arch					
a) Male gametophyte					
b) Female gamete					

c) Female gametophyte

302. If the leaf of Funaria has 5 chromosomes by 5 chromosomes c) 15 chromosomes d) 20 chromosomes 303. In gymnosperms the reduced gametophyte is called a) Endospore b) Pollen grain c) Ovule d) Aplanospore 304. Double fertilisation occurs among a) Algae b) Bryophytes c) Angiosperms d) Gymnosperms 305. In algae asexual reproduction occurs by the production of different types of spore is a) Aplanospore b) Endospore d) Oospore 306. In agea algae vegetative reproduction takes place by a) Fragmentation c) Both (a) and (b) d) Conidia 307. Photosynthetic pigments of class-Rhodophyceae (red algae) are a) Chlorophyll-a, b b) Chlorophyll-a, c c) Chlorophyll-a, d d) Chlorophyll-a, c and d 308. In a moss, the sporophyte a) Is partially parasition the gametophyte gametophyte c) Arises from a spore produced from the gametophyte 309. Fruits are not found in gymosperms because a) They are not seedless c) They are not pollinated conditions and particular time time time time time time time time
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313. Fertilisation is the process of
a) Transfer the pollen from anther to stigma
b) Fusion of one male gamete with the egg
c) Formation of seed from ovule
d) Fusion of male nucleus with polar nuclei
314. Angiosperms are also called
a) Seed less plants b) Fruits less plants c) Flowering plants d) All of these
315. Read carefully the following statements
I. Funaria possesses unicellular and unbranched rhizoids
II. Gemmae are asexual buds, which originate from small receptacles called gemma cups
III. The Sphagnum plants have magnificent property of retaining water
IV. Mosses along with lichens are the first organisms to colonise rocks
Which of the statements given above are correct?
a) I, II and III b) I, III and IV c) II, III and IV d) I, II, III and IV
316. In brown algae asexual reproduction takes place by
a) Aplanospores (apple-shaped and non-motile)
b) Biflagellate gametes (pear-shaped and have two unequal flagella)
c) Endospores (round and have one flagella)
d) Multifilagellate gametes and are sickle-shaped

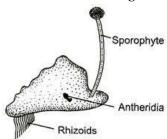
	_		
317. Sporophyte of fern prod) ()	D.C.
a) Pollen grains	b) Spores	c) Seeds	d) Gametes
318. Fern spores are usually) m · l · l	15 m + 1 + 1
a) Haploid	b) Diploid	c) Triploid	d) Tetraploid
319. In <i>Cycas</i> , diploxylic vas) v	
a) Stem	b) Root	c) Leaflet	d) Rachis and leaflet
320. A group of plants which wall are called	are autotrophs, their sex of	rgans are non-jacketed ar	nd whose zygotes secrete thick
a) Phycophytes	b) Lichens	c) Bryophytes	d) Thallophytes
321. Peat moss is			
a) <i>Funaria</i>	b) <i>Fern</i>	c) Algae	d) <i>Sphagnum</i>
322. The main plant body in	pteridophyte is	, ,	-
	ich is differentiated into roo	t, b) Sporophyte having	no root, stem and leaf
	ich is differentiated into roo	ot, d) Gametophyte havin	g no root, stem and leaf
323. Consider the following	statement regarding hetero	snorv	
	la and Salvinia which prod		macro (large) and micro
(small) spores, are kno	_	ruce two kinds of spores,	macro (large) and micro
·	-	d give rice to female and r	nale gametophyte respectively
-		•	
	_		ophytes for variable periods
-	the zygotes into young emb		
_	rsor to the seed habit consid		
a) I, II and III	b) II, IV and V	c) III, IV and V	d) I, II, III, IV and V
324. Common characteristic	between bryophytes and pt	= = =	
a) Vascularization		b) Terrestrial habit	1
c) Water for fertilizatio		d) Independent sporo	onyte
325. Two very distinst gener			12.7
a) Bacteria	b) <i>Spirogyra</i>	c) <i>Volvox</i>	d) Ferns
326. Prothallus of the fern p			
a) Spores	b) Gametes	c) Both (a) and (b)	d) Cones
327. Dominant generation in			
a) Capsule	b) Sporophyte	c) Gametophyte	d) Seta
328. In gymnosperms, pollin	ation takes place by		
a) Water	b) Air	c) Insects	d) Animals
329. A and B in given figure	represents		
Branches Branches			
a) A-Gametophyte bran	ch, B-Sporophyte branch	b) A-Antheridial branc	h, B-Archegonial branch
c) A-Archegonial branc	h, B-Antheridial branch	d) A-Sporophyte branc	ch, B-Gametophyte branch
330. Incipient nucleus is fou		•	
a) Myxophyceae	b) Phaeophyceae	c) Rhodophyceae	d) Chlorophyceae
331. Conifers differ from gra			- ·

a) Production of seeds from ovules

b) Lack of xylem tracheids

c) Absence of pollen tubes

- d) Formation of endosperm before fertilization
- 332. Which of the following is correct the ploidy level in labelled organs of plant shown in given figure?



a) Sporophyte-Diploid (2*n*)

b) Antheridia-Haploid (n)

c) Rhizoids – Haploid (n)

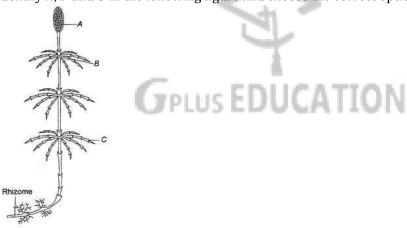
- d) All of the above
- 333. Non-motile, greatly thickened, asexual spore in *Chlamydomonas* is
 - a) Carpospores
- b) Akinetes
- c) Aplanospores
- d) Hypnospores

- 334. Consider the following statements about brown algae
 - I. The largest kelps are Nereocystis and Macrocystis
 - II. Brown algae have gelatinous coating outside the, cellulosic cell wall called algin
 - III. Food obtained from Laminaria saccharina is known as 'Kombu'

Which of the statements given above are correct?

- a) I and II
- b) I and III
- c) II and III
- d) I, II and III

- 335. Double fertilisation is characteristic feature of
 - a) Gymnosperms
- b) Angiosperms
- c) Monocoats
- d) Bryophytes
- 336. Identify *A*, *B* and *C* in the following figure and choose the correct option



a) A-Strobilus, B-Node, C-leaves

- b) A-Strobilus, B-node, C-branch
- c) A-Sporophyll, B-Node, C-Internode
- d) A-Sporophyll, B-Internode, C-Node
- 337. Reproductive parts of an angiospermic plant are
 - a) Stamen
- b) Pistil
- c) Both (a) and (b)
- d) Shoot

- 338. After fertilisation the ovaries develop into
 - a) Fruit

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- b) Seed coats
- c) Seed

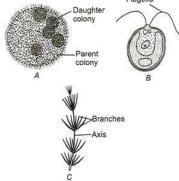
- d) Integuments
- 339. Which of the following algae are suitable for human consumption?
 - a) Laminaria and Fucus

b) *Gracilaria* and *Chondrus* d) *Rhodymania* and *Porphyra*

- c) *Porphyra* and *Spirogyra* 340. In *Ulothrix*, meiosis occurs in
 - a) Gamete b) Zygospore
- c) Zoospore
- d) Thallus

- 341. Choose the correct statements about protonema
 - a) Juvenile stage of moss is protonema
 - b) It consists of slender, green, branching system of filaments
 - c) Develops directly from a spore

d) All of the above			•
342. Fruits are mature			
a) Ovules	b) Ovaries	c) Flower	d) Peduncles
343. Megasporophyll of Cyca	s is equivalent to		•
a) Stamen	b) Sepal	c) Petal	d) Carpel
344. Mosses (along with liche	en) are of great ecological in	nportance because	
a) They colonise on barr rock	ren rocks and decompose	b) Its contribution to pre-	vent soil erosion
c) Its contribution in eco	ological succession	d) All of the above	
345. Microsporangia of Cycas	s occur over microsporophy	rll	
a) Laterally	b) Abaxially	c) Adaxially	d) Marginally
346. The plant body of bryop	hytes are thallus like, prosti	rate or erect and attached to	o substratum with the help
of			
a) Unicellular or multice	llular roots	b) Unicellular or multicel	lular rhizoids
c) Multicellular roots		d) Unicellular roots	
347. Heterospory is the produ	uction of		
a) Sexual and asexual sp	ores	b) Large and small spore:	S
c) Haploid and diploid s	pores	d) Diploid and tetraploid	spores
348. Bryophytes include			
a) Liverworts and mosse	es		
b) Lycopods and mosses	1		
c) Lycopods and liverwo	orts		
d) Liverworts and <i>Volvo</i>	X	>	
349. About 90% of the total g	reen algae is found in		
a) Marine environment		b) Freshwater environme	ent
c) Rivers		d) Terrestrical environm	ent
350. Mosses are attached to s	ubstratum by		
a) Roots	b) Capsule	c) Rhizoids	d) Main axis
351. Oil is reserve food in	OLIO2 FDO	25417-014	
a) <i>Chlamydomonas</i>	b) Oedogonium	c) Vaucheria	d) <i>Chara</i>
352. Coralloid roots of <i>Cycas</i>	are useful in		
a) N_2 — fixation	b) Absorption	c) Transpiration	d) Fixation
353. The type of pollination in	n <i>Cycas</i> is		
a) Entomophily	b) Hydrophily	c) Anemophily	d) Malacophily
354. Spore of <i>Funaria</i> on ger	_		
a) Protonema	b) Sporophyte	c) Prothallus	d) Capsule
355. Eutrophication is the res	sult of		
a) Bryophyte		b) Algae and aquatic plan	its
c) Gymnosperm		d) Pteridophyte	
356. Identify the given figure		rect option	
Daughter colony Parent colony	obs.		



	as, B- <i>Chara</i> , C- <i>Volvox</i>	b) A- <i>Volvox</i> , B- <i>Chlam</i>	
c) A- <i>Chara</i> , B- <i>Lami</i>		d) A- <i>Porphyra</i> , B- <i>Poly</i>	=
357. If number of chrom	osomes in foot of fern embry		-
a) 4	b) 8	c) 23	d) 16
358. Agar-agar is obtain	ed from		
a) Chlorella	b) <i>Spirogyra</i>	c) <i>Ulothrix</i>	d) Gelidium
359. The alga rich in pro	tein is		
a) Chlorella	b) <i>Ulothrix</i>	c) Laminaria	d) <i>Nostoc</i>
360. A typical of angiosp	ermic embryo sac is usually		
a) One celled	b) Three celled	c) Five celled	d) Seven celled
361. Female reproductiv	ve part of bryophytes is		
a) Antheridium	b) Oogonium	c) Archegonium	d) Sporangium
362. Which of the follow	ing group of marine algae ar	e used as food?	
	s, Volvox and Gracilaria		
	aria and <i>Sargassum</i>		
c) <i>Laminaria</i> and <i>G</i>	_		
d) <i>Porphyra</i> and <i>Ch</i>			
363. Chlamydomonas n	-		
a) Red snow	b) Red rust of tea	c) Yellow snow	d) Brown snow
364. The thallus of <i>Volve</i>	-	.,	.,
a) Trichome	b) Coenobium	c) Coenocytes	d) Parenchymatous
365. Number of periston	•	e, doenocytes	a) i ai enenymatous
a) 16 + 16	b) 16 + 32	c) 8 + 16	d) 32 + 32
366. Plants have in the		0 1 10	uj 52 52
a) Asexual generati		b) Sexual generations	only
c) Alternation of ge		d) Haplontic generation	
	il, known by the name of 'ma		nis only
a) Thuja		c) Ginkgo	d) Araucaria
368. Chloroplast in <i>Ulot</i> .	b) Pinus	c) dinkgo	aj Araucaria
•		a) Dibban abanad	d) Ciudla abanad
a) Stellate	b) Cup-shaped	c) Ribbon-shaped	d) Girdle-shaped
369. ·	Confront of the state of the st		
In the diagram give	n above, the algae have been	labeled as 'A', 'B', 'C', 'D', an	d 'E'. These algae are
respectively identif	_		
• •	phonia, Porphyra, Fucus an	nd <i>Laminaria</i>	
	ota, Laminaria, Fucus and F		
	phonia, Porphyra, Laminar		
	a, Dictyota, Polysiphonia an		
370. The members of bro		ia swiittiiwi tu	
S. SI THE INCIDELS OF DI	o ,, ,, aigae iia v c		

- a) Chlorophyll-*a*, chlorophyll-*b*, xanthophylls
- b) Chlorophyll-*a*, chlorophyll-*c*, xanthophylls and carotenoids

c) Fucoxanthin and xanthophylls

d) Chlorophyll-a and xanthophylls

371. In the prothallus of a vascular cryptogam, the antherozoids and eggs mature at different times. As a result

- a) There is no change in success rate of fertilization
 - b) There is high degree of sterility
- c) One can conclude that the plant is apomictic
- d) Self-fertilization is prevented

372. In flowering plants meio	sis occurs at the time of		
a) Formation of buds		b) Germination of seed	
c) Formation of root primordia		d) Formation of pollen g	rains
373. Which of the following is	an important source of ed	ible protein?	
a) <i>Spirogyra</i>	b) <i>Porphyra</i>	c) Spirulina	d) Cephaleuros
374. Floridian starch is reserv	re food in		
a) Rhodophyceae	b) Phaeophyceae	c) Chlorophyceae	d) Xanthophyceae
375. Chlamydomonas shows			
a) Isogamy	b) Anisogamy	c) Both (a) and (b)	d) Oogamy
376. Mosses are			
a) Green			
b) Leafy			
c) Upright and radial in s	symmetry		
d) All of the above			
377. The site of photosynthes	is in blue-green algae is		
a) Chromatophores	b) Mitochondria	c) Chloroplast	d) Root hair
378. In gymnosperm, the leav	es are well-adapted to with	nstand extremes of temper	ature, humidity and wind.
What are the xeric chara	cters in conifers?		
a) Needle-like leaves	b) Thick cuticle	c) Sunken stomata	d) All of these
379. Vegetative reproduction	in <i>Cycas</i> occurs by		
a) Bulbils	b) Sporophylls	c) Fission	d) Scale leaves
380. Classification done on th	e basis of cytological inforn	nation, chromosome struc	ture and their behavior, is
known as		>	
a) Molecular classification	on .	b) Cytotaxonomy	
c) Chemotaxonomy		d) Karyotaxonomy	
381. Choose the correct state:	ments for the sporophyte o	f bryophytes,	
I. sporophyte is multicel	ular, not free living but atta	ached to the gametophyte	for nourishment from it
II. some cells of the spor	ophyte under go meiosis to	produce haploid spores	
III. these spores germina	te to produce gametophyte	SECTION	
a) I and II	b) I and III	c) II and III	d) I, II and III
382. In mosses vegetative rep	roduction takes place by		
a) Fragmentation and bu	idding in the secondary pro	otonema	
b) Gemmae formation ar	d endospore formation		
c) Gemmae and tubers fo	ormation		
d) Protonema			
383. Eight nucleated female g	• •		
a) Bryophytes	b) Gymnosperms	c) Angiosperms	d) Pteridophytes
384. Vasculature is poorly de	veloped, pith has mucilage	canals, parenchyma and m	edullary rays are abundant
in			
a) <i>Cycas</i>	b) <i>Pinus</i>	c) Selaginella	d) Funaria
385. When a produces two ki	-		
a) Homospory	b) Heterospory	c) Apospory	d) Sporogenesis
386. Artificial system of class:			
a) Aristotle	b) Linnaeus	c) Theophrastus	d) Haeckel
387. In algae, vegetative repr		-	
a) Budding	b) Akinetes	c) Fragmentation	d) Heterocyst
388. Which of the following p			15 -
a) Angiosperms	b) Gymnosperms	c) Pteridophytes	d) Bryophytes
389. The characteristic of blu	e-green algae is	12.34	
a) DNA without histone		b) Nuclear membrane al	bsent

			-
c) 70 S ribosome		d) All of these	
390. Father of Indian Bryolo			
a) Raj Kumar	b) S R Kashyap	c) Maheshwari	d) Khurana
391. In which of the followin			
a) Marchantia	b) <i>Riccia</i>	c) Anthoceros	d) All of these
392. In which of the following	g features, Cycas resembles	with angiosperms?	
a) Presence of vessels		b) Circinate vernation	
c) Dichotomously brane	ched leaves	d) Pollen tube is the carr	rier of male gametes
393. Megasporophyll is the t	erm used in gymnosperm to	denote	
a) Carpel	b) Leaves	c) Female cone	d) Stamens
394. Haplo-diplontic life cycl	e is followed by		
a) Bryophytes and pter	idophytes	b) Algae and bryophytes	
c) Angiosperm and gym	nnosperm	d) Bryophytes and gymn	osperm
395. Green alga contains			
a) Chlorophyll- a and b	b) Starch	c) Carotenoid	d) All of these
396. Ectophloic siphonostele	e is found in		
a) Adiantum and Cucu	rbitaceae	b) Osmunda and Equise	etum
c) Marsilea and Botry	chium	d) Dicksonia and maide	n hair fern
397. Roots is some gymnosp	ermic genera have fungal as	sociation in the form ofA	A inB Here, A and B
refers to			
a) A-mycorrhiza; B- <i>Pin</i>	US	b) A-mycorrhiza; B- <i>Cyca</i>	ıs
c) A-lichen; B- <i>Pinus</i>		d) A-lichen; B- <i>Cycas</i>	
398. <i>Sphagnum</i> a moss, is us	sed as a packing material for		ials because of its
a) Water holding capac	The state of the s	b) Creeping capacity	
	does not undergo decay	d) All of the above	
399. Which of the following i			
a) They are thalloid		b) They contain chloropl	last
c) They possess archeg	onia – E DIII	d) All of the above	
400. In <i>Spirogyra</i> ,	O PLUS EDUI	LATION	
a) Filaments in which la	nteral conjugation occur are	homothallic	
b) Filaments in which s	ealariform conjugation occu	r are homothallic	
c) Filaments in which la	nteral conjugation occur are	heterothallic	
d) A sexual reproductio	· =		
401. The protonema is a stag			
a) <i>Riccia</i>	b) <i>Funaria</i>	c) All bryophytes	d) <i>Pinus</i>
402. Identify the alga known			,
a) <i>Spirogyra</i>	b) <i>Chlorella</i>	c) Cyclotella	d) Noctiluca
403. The moss plant is	,	., .,	,
-	hyte and sometimes sporop	hvte	
	tophyte with sporophyte att	-	
c) Gametophyte			
d) Sporophyte			
404. Flagellated male gamete	es are nresent in all the three	e of which one of the follow	ving sets?
a) Anthoceros, Funario	_	b) Zygnema, Saprolegn	_
c) Fucus, Marsilea and		d) <i>Riccia, Dryopteris</i> an	
405. In brown algae, brown	· · · · · · · · · · · · · · · · · · ·		iu cycus
a) Carotenoids	b) Fucoxanthin	c) Phycoerythrin	d) Chlorophyll
406. <i>Nostoc</i> fixes dinitrogen			a) dinorophyn
I. Alnus II. Gunnera	in sympiotic association Wi	an ane ionowing	
	.arina		
III. Anthoceros IV. Cası	เนาเทน		

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				Gplus Education	
	a) I and II	b) II and III	c) I and III	d) I and IV	
407.	The members of Chlorop	hyceae usually have a rigid	l cell wall made up of		
	a) Cellulose (outer layer)	and algin (inner layer)			
	b) Pectose (inner layer) a	and peptidoglycan (outer la	ayer)		
	c) Cellulose (inner layer)	and pectose (outer layer)			
	d) Chitin (inner layer) an	d pectose (outer layer)			
408.	Zygotic meiosis takes pla	ce in			
	a) Chlamydomonas	b) Bryophytes	c) Pinus	d) Dryopteris	
409.	Which of the following is	correct for Cycas reprodu	ction?		
	a) Zooidogamy is followe		b) Siphonogamy is follow	ed by zooidogamy	
	c) Siphonogamy only		d) Zooidogamy		
410.		embryonal cells formed be			
	a) Rosette tier	b) Suspensor tier	c) Embryonal tier	d) Free-nuclear tier	
411.	Kingdom-Plantae include	_	, ,	,	
	a) Algae, bryophytes and				
		ridophytes, gymnosperms	and angiosperms		
		hytes, gymnosperms and a			
		gymnosperms and angiosp			
412.	Moss spore germinate to				
	a) Sporophyte	b) Protonema	c) Seta	d) Capsule	
413.	Pteridophytes mostly occ	•	,	<i>y</i> 1	
	a) Cool, damp and shady places				
	b) Hot and sunny places	Piutes			
	c) Dry and humid areas	di i			
	d) In water	CL			
414.	•	e filamentous state in the li	fe cycle of		
	a) Funaria	b) Riccia	c) Marchantia	d) Laminaria	
415.	In which way, mosses affe		PATTANI	a, zamina ta	
1151	a) Prevents soil erosion	cets the quality of som.	b) Add nutrients to the so	nil	
	c) Promotes soil degrada	tion	d) They do no affects soil		
			in the development of seed		
110.	a) Dependent sporophyte		b) Heterospory	i nabit.	
	c) Haplontic life cycle	~	d) Free-living gametophy	710	
417	In capsule of moss, shock	ahsorhers are	a) Tree fiving gametophy		
T1/.	a) Trabeculae	b) Peristome teeth	c) Seta	d) Annulus	
<i>4</i> 1Ω	Haploid structure of <i>Fun</i>		c) scia	uj Aimulus	
710.	a) Calyptra	b) Protonema	c) Apophysis	d) Operculum	
<i>1</i> 10	, , ,	-	sporophytic stage in plant li	, .	
417.	a) The haploid generation		sporophytic stage in plant if	ie cycle:	
	b) Generation that produc) Generation that produ	-			
		-			
120	d) Generation that produ				
420.		assification is also known		falaggification	
	a) Artificial system of class		b) Hutchinson's system of all		
121	c) Natural system of class		d) Whittaker system of cl	assincation	
421.	Transfusion tissue is pres		a) Dimus	d) Dath (b) = 1 (-)	
	a) Dryopteris	b) <i>Cycas</i>	c) Pinus	d) Both (b) and (c)	

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c) Gymnosperms

d) Bryophytes

422. Gametophytic generation is dominant stage in the life cycle of

b) Angiosperms

a) Pteridophytes

423. Pyrenoids are made up of

	a) Core of starch surrounded by sheath of protein		
	b) Core of protein surrounded by fatty sheath		
	c) Proteinaceous centre and starchy sheath		
	d) Core of nucleic acid surrounded by protein sheat	h	
424	In ferns and mosses, movement of antherozoids tow	vards female component is	called
	a) Phototaxis b) Chemotaxis	c) Hydrotropism	d) Thigmotropism
425	Atleast a half of the total ${\rm CO_2}$ fixation on earth is car	ried out byA through	.B Here A and B refers to
	a) A-bryophytes, B-respiration		
	b) A-algae, B-photosynthesis		
	c) A-pteridophytes, B-photosynthesis		
	d) A-fungi, B-respiration		
426	Consider the following statements regarding reproc	luction in class-Chloropyce	ae.
	I. Asexual reproduction is mainly by flagellated zoos	spores produced in zoospor	angia.
	II. The sexual reproduction shows considerable vari	ation in the type and forma	ntion of sex cells and it may
	be isogamous, anisogamous and oogamous.		
	Which of the statements given above are correct?		
	a) Only I b) Only II	c) I and II	d) None of these
427	Laminarin and manitol of class-Phaeophyceae (brow	wn algae) are	
	a) Proteins	b) Complex carbohydrate	es
	c) Lipoproteins	d) Fat	
428	Choose the correct statements.		
	Apophysis is the basal fertile part of the capsule i	n h Apophysis is the apica	l sterile part of the
	^a Funaria	microsporophyll in <i>Cy</i>	cas
	c) Apospory is the development of sporophyte from	d) Apogamy is the develo	pment of gametophyte
	vegetative cells of the gametophyte	from vegetative cells o	f the sporophyte
429	The first Division, which comes under kingdom-Pla		
	a) Algae b) Fungi	c) Cyanobacteria	d) Blue-green algae
430	Microsporangia in gymnosperm are produced	"ΔΤΙΩΝ	
	a) On the middle portion of microsporophyll	27417-014	
	b) On the lowerside of microsporophyll		
	c) On the middle portion of megasporophyll		
	d) At the extreme tip of microsporophyll		
431	Spore of <i>Funaria</i> on germination produces		
	a) Protonema b) Antheridia	c) Archegonia	d) Vegetative body
432	Fusion of two gametes, which are dissimilar in size		_
	a) Oogamy b) Isogamy	c) Anisogamy	d) Zoogamy
433	Heterosporous pteridophytes always produce		
	a) Monoecious gametophytes	b) Dioecious gametophyt	es
	c) Homothallic gametophytes	d) None of the above	
434	People recovering from long illness are often advise		<i>lina</i> in their diet because it
	a) Makes the food easy to digest	b) Is rich in proteins	·
	c) Has antibiotic properties	d) Restores the intestinal	microflora
435	A ring of multiciliate zoogonidium is found in		N
	a) Ulothrix b) Zygnema	c) Oedogonium	d) <i>Chara</i>
436	Sterile part of <i>Cycas</i> microsporophyll is	> x = 1 11	n •
40-	a) Apophysis b) Sporophore	c) Middle part	d) Lower part
437	Which of the following is living fossil?) (1)	D. D J (1)
400	a) Gnetum b) Cycas	c) Ginkgo	d) Both (b) and (c)
438	Read carefully the following statements about angio	=	
	I. Pollen tube carries the male gamete towards arch	egonia and discharge conte	nts in the mouth of

	archegonium		
	II. Male gamete fuses with egg to give rise zygote		
	III. Zygote develops into embryo and embryo into se	eeds	
	IV. Seeds are naked		
	Which of the statement given above are correct?		
	a) I and II b) I, III and IV	c) I, II and IV	d) I, II, III and IV
439	9. Which type of moss is <i>Funaria</i> ?		
	a) Acrocarpous moss	b) Pleurocarpous moss	
	c) Anacrogynous moss	d) Cleistocarpous moss	
440). Select the correctly matched ones.		
	I. Phaeophyceae - Mannitol		
	II. Rhodophyceae - Dictyota		
	III. Chlorophyceae - Non-motile gametes		
	IV. Rhodophyceae - r -phycoerythrin		
	a) I, II and III b) II, III and IV	c) I and III	d) I and IV
441	l. Algae have cell wall made up of		
	a) Cellulose, galactans and mannans	b) Hemicelluloses, pectin	=
	c) Pectins, cellulose and proteins	d) Cellulose, hemicellulos	ses and pectins
442	2. Pyrenoids are present in the in most of the green	· ·	
	a) Chloroplast b) Ribosome	c) Plastids	d) Chromoplast
443	3. Indusium is found in		
	a) Algae b) Ferns	c) Moss	d) Cycas
444	l. External fertilization occurs in majority of	>	
	a) Algae b) Fungi	c) Liverworts	d) Mosses
445	5. In the life cycle of mosses, the gametophyte has two	stages (A and B). These sta	ages can be called
	a) A-Protonema; B-Leafy stage	b) A-Protonema; B-Sporo	gonium
	c) A-Sporophyte; B-Gametophyte	d) A-Zygote; B-Spore	
446	5. Number of meiosis for formation of 64 zygotes in an	igiosperm is 80 but in gymi	nosperms number of
	meiosis for formation of 64 zygotes will	25417-014	
	a) 40 b) 80	c) 160	d) 20
447	7. In gymnosperm the microspores develop into a mal-	e gametophyte generation	which
	a) Is highly reduced and confined to only a limited n	number of cells	
	b) Is highly developed		
	c) Has an independent life		
	d) Both (a) and (c)		
448	3. In a monoecious plant		
	a) Male and female sex organs are on different indiv	riduals	
	b) Male and female gametes are of two morphologic	ally distinct types	
	c) Male and female sex organs are on the same indiv	ridual	
	d) All the stamens are fused to form one unit		
449). In which of the following, all listed genera belong to	the same class of algae?	
	a) Chara, Fucus, Polysiphonia	b) Volvox, Spirogyra, Ch	lamydomonas
	c) Porphyra, Ectocarpus, Ulothrix	d) Sargassum, Laminari	ia, Gracillaria
450). Which of the following is incorrect with respect to a	ngiosperms?	
	a) Endosperm – Triploid	b) Megaspore – Diploid	
	c) Pollen grain – Haploid	d) Synergid – Haploid	
451	I. In <i>Cycas</i> stem, open vascular bundle is characterize		
	a) Phloem being sandwitched between xylem	-	
	b) Cambium present in between xylem and phloem		
	c) Xylem being sandwithced between phloem		
	- · · · · · · · · · · · · · · · · · · ·		

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d) Xylem and phloem occurring on different radii						
452. Which green alga shows heterotrichous habit and may have given rise to terrestrial (land) habit?						
a) Chlamydomonas b) Fritschiella	c) Vaucheria	d) <i>Ulothrix</i>				
453. The characteristic features of bryophytes are						
I. main plant body is gametophytic						
II. main plant body is sporophytic						
III. requirement of water for fertilisation						
Which of the statements given above are correct?						
a) I and II b) I and III	c) II and III	d) I, II and III				
454. Which is the tallest gymnospermic tree species?	,					
a) <i>Pinus</i>	b) <i>Cycas</i>					
c) <i>Ginkgo</i>	d) Red wood tree Siquoia	1				
455. Anisogamous means both gamete are	,,	-				
a) Similar in size and non-motile	b) Dissimilar in size					
c) Similar in size and motile	d) Dissimilar in size and	non-motile				
456. Usually plant body of brown algae is differentiated i	•	non moune				
a) Holdfast and frond	b) Stripe and holdfast					
c) Frond and stripe	d) Holdfast, stipe and fro	nd				
457. <i>Ulothrix</i> releases zoospore during	aj molalast, supe ana mo	IId				
a) Evening b) Morning	c) Night	d) Noon				
458. The kidney-shaped covering of sorus in <i>Dryopteris</i>		u) Noon				
a) Placenta b) Ramentum		d) Indusium				
	c) Sporophyll	d) Indusium				
459. Pollen grains in <i>Pinus</i> are	a) Tuiggagata	d) Namasaasta				
a) Monosaccate b) Bisaccate	c) Trisaccate	d) Nonsaccate				
460. Characteristic of fern is						
1) Detical transfer) D II . I	1) M C.1				
a) Circinate venation b) Reticulate venation	c) Parallel venation	d) None of these				
461. Protonema is the stage in the life cycle of		,				
461. Protonema is the stage in the life cycle of a) Cycas b) Funaria	c) Selaginella	d) None of these d) <i>Mucor</i>				
461. Protonema is the stage in the life cycle ofa) <i>Cycas</i>b) <i>Funaria</i>462. Which of the following plant cells is not surrounded	c) <i>Selaginella</i> by a cell wall?	d) <i>Mucor</i>				
 461. Protonema is the stage in the life cycle of a) Cycas b) Funaria 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 	c) Selaginella by a cell wall? c) Gamete cell	d) <i>Mucor</i> d) Bacterial cell				
 461. Protonema is the stage in the life cycle of a) <i>Cycas</i> b) <i>Funaria</i> 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 463. Top-shaped multiciliate male gametes and the mature 	c) Selaginella by a cell wall? c) Gamete cell	d) <i>Mucor</i> d) Bacterial cell				
 461. Protonema is the stage in the life cycle of a) Cycas b) Funaria 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 463. Top-shaped multiciliate male gametes and the matucotyledons, are characteristic features of 	c) Selaginella by a cell wall? c) Gamete cell are seed, which bears only o	d) <i>Mucor</i> d) Bacterial cell one embryo with two				
 461. Protonema is the stage in the life cycle of a) Cycas b) Funaria 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 463. Top-shaped multiciliate male gametes and the mature cotyledons, are characteristic features of a) Polypetalous angiosperms 	c) Selaginella by a cell wall? c) Gamete cell are seed, which bears only o b) Gamopetalous angiosp	d) <i>Mucor</i> d) Bacterial cell one embryo with two				
 461. Protonema is the stage in the life cycle of a) Cycas b) Funaria 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 463. Top-shaped multiciliate male gametes and the maturotyledons, are characteristic features of a) Polypetalous angiosperms c) Conifers 	c) Selaginella by a cell wall? c) Gamete cell are seed, which bears only o b) Gamopetalous angiosy d) Cycads	d) <i>Mucor</i> d) Bacterial cell one embryo with two				
 461. Protonema is the stage in the life cycle of a) Cycas b) Funaria 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 463. Top-shaped multiciliate male gametes and the maturcotyledons, are characteristic features of a) Polypetalous angiosperms c) Conifers 464. Gametophytic and sporophytic phases are independent 	c) Selaginella by a cell wall? c) Gamete cell are seed, which bears only o b) Gamopetalous angiosy d) Cycads lent in	d) <i>Mucor</i> d) Bacterial cell one embryo with two perms				
 461. Protonema is the stage in the life cycle of a) Cycas b) Funaria 462. Which of the following plant cells is not surrounded a) Root hair cell b) Stem hair cell 463. Top-shaped multiciliate male gametes and the mature cotyledons, are characteristic features of a) Polypetalous angiosperms c) Conifers 464. Gametophytic and sporophytic phases are independent a) Pteridophytes b) Bryophytes 	c) Selaginella by a cell wall? c) Gamete cell are seed, which bears only of b) Gamopetalous angiosp d) Cycads lent in c) Gymnosperms	d) <i>Mucor</i> d) Bacterial cell one embryo with two				
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a) Phaseolus b) Pinus d) Cicer c) Pisum 471. The diagram represents the life cycle of angiosperm. Choose the correct combination of labelling a) A-Anther, B-Stigma, C-egg, D-Male gametophyte, E-ovule b) A-Ovule, B-Stigma, C- Male gametophyte, D- Anther, E-Egg c) A-Male gametophyte, B-Stigma, C-Anther, D-Egg, E-ovule d) A-Stigma, B- Anther, C- Male gametophyte, D-Egg, E-ovule 472. Plants of this group are diploid and well adapted to extreme conditions. They grow bearing sporophylls in compact structures called cones. The group in reference is a) Monocots b) Dicot c) Angiosperms d) Gymnosperms 473. After fertilisation the ovules develop into b) Seed coats c) Seed d) Integuments 474. In comparition to pteridophyte, which one of the following algae exhibits diplontic life cycle? a) *Volvox* b) Chara c) Polysiphonia d) Focus 475. Which one of the following plants functions as symbolic nitrogen-fixing plant? a) Azolla b) Cycas d) Marchantia c) Moss 476. Which of the following is autotrophic? b) Mycoplasma d) All of these c) Nostoc 477. In some pteridophytes, sporophyll form distinct compact structures called ... A... in ... B... and ... C... Here A, B and C refers to a) A-sporocarp, B-*Pogonatum*, C-*Selaginella* b) A-spikelet, B-Riccia, C-Marchentia c) A-strobilus, B-Selaginella, C-Equisetum d) A-spike, B-Fern, C-Salvinia 478. *Kelp* (branched form) and *Sargassam* (filamentous form) belongs to b) Brown algae c) Red algae d) Blue-green algae a) Green algae 479. In Chlamydomonas, the meiosis occurs in a) Gamete b) Zygote c) Sporogonium d) Zoospore 480. Consider the following statements I. The plants have magnificent property of retaining water. They can with hold water two hundred times more than their own weight. Hence, they are widely used by gardeners to keep cut plant parts moist during transportation and propagation II. These plants grow as semiaquatic or submerged in acidic marshes. The older portions of plant die but do not decay due to peculiar germicidal properties The above statements belongs to which of the following bryophitic plant? a) Pogonatum b) Funaria c) Sphagnum d) Marchantia 481. First vascular plant is a) Thallophyta b) Bryophyta c) Pteridophyta d) Spermatophyta 482. Female cone of *Pinus* is a

470. Which of the following plant does not have Rhizobium containing root nodules?

		2.24 110 1.1	apias Luacation
a) Modified need	,		-
_	cellular forms likeA, filan	nentous likeB and colo	nical forms likeC Here A, B
and C refer to			
	onas, B- <i>Volvox</i> , C- <i>Ulothrix</i>		
b) A- <i>Ulothrix,</i> B-	Volvox, C- <i>Chlamydomonas</i>		
c) A- <i>Volvox</i> , B- <i>U</i>	othrix, C- <i>Chlamydomonas</i>		
d) A- <i>Chlamydom</i>	onas, B- <i>Ulothrix,</i> C- <i>Volvox</i>		
484. The gametophyte	e of moss is		
a) Seta	b) Capsule	c) Zygote	d) Protonema
485. In gymnosperms,	the ovule is naked because		
a) Ovary wall is a	bsent	b) Integuments are	absent
c) Perianth is abs	sent	d) Nucellus is abser	nt
486. Which of the follo	owing is not correctly matche	d?	
a) Chlamydomor	nas - Unicellular flagellated	b) <i>Laminaria -</i> Fla	ttened leaf-like thallus
c) Chlorella - U	nicellular non-flagellated	d) <i>Volvox</i> - Coloni	al form, non-flagellated
487. Consider the follo	owing statements		_
	are only plant among the hete	erosporous pteridophytes	that are leptosporangiate
	pteridophytes were the first		
-	e in size between microspore		ella kraussiana is 1:200
	ophyte of <i>Seleginella</i> mostly		
-	ve statement are correct?	0	
a) I and II	b) IV	c) I, II and IV	d) I, II, III and IV
	n an angiospermic flower is		, , ,
a) Stamen	b) Pistil	c) Carpel	d) Shoot
•	owing is an algal parasite?	.,	,
a) <i>Volvox</i>	b) <i>Ulothrix</i>	c) Porphyra	d) Cephaleuros
490. Mannitol is the st	_	5) 1 1. F. J. II	,
a) Chara	b) Porphyra	c) Fucus	d) <i>Gracillaria</i>
•	sequential arrangement of re		-
	Strobilli → Sporangia → Spore	_	pterraophytes
	orophyll → Sporangia → Spore		
	ophyll → Sporangia → Strobil		
	angia → Sporophyll → Strobil		
	the seeds are naked because		
a) Integument	b) Nucellus	c) Pericarp	d) Perianth
	between the alga <i>Microcysti</i> s		-
a) Ammensalism		c) Predation	d) Exploitation
•	nble algae in the following as	•	a) Exploitation
	ody, presence of vascular tiss		ion
	ody, presence of vascular tiss of plant body into root, stem		
-	ant body, presence of roots ar	-	ic nutrition
		-	ion
	ant body, lack of vascular tiss	ues and autotropine nutrit	ion
_	and in association with	a) Cloth boon	d) Poth (a) and (a)
a) Fungi	b) Lichen	c) Sloth bear	d) Both (a) and (c)
496. The bryophytes a		h) For 11:	vo vrto
a) Mosses and liv		b) Ferns and liverw	
c) Mosses and ho		d) Ferns and horse	tans
497. Consider the follo	_	Leave In Constant	
i, in red algae veg	getative reproduction takes pl	ace by fragmentation	

II. In red algae the food is stored as floridean starch, which is very similar to amylopectin and glycogen is

III. Cell wall of red algae consists of chitin		
Which of the statements given above are correct?		
a) I and II b) I and III	c) II and III	d) All of these
498. In Selaginella, trabeculae are the modification of		
a) Epidermal cells b) Cortical cells	c) Endodermal cells	d) Pericycle cells
499. Which one of the following formed in <i>Spirogyra</i> is d	lifferent based on its nucle	us?
a) Zygospore b) Azygospore	c) Aplanospore	d) Akinete
500. During development of embryo in archegonium of B		5
cover, which is called		
a) Calyptra b) Paraphysis	c) Apophysis	d) Hypophysis
501. Ectocarpus, Dictyota, Laminaria, Sargassum and I		<i>y</i>
a) Phaeophyceae b) Rhodophyceae	c) Chlorophyceae	d) Cynophyceae
502. Sexual reproduction in <i>Spirogyra</i> is an advanced feature.		, -, F,
a) Morphologically differentiated sex organs	b) Physiologically differen	ntiated sex organs
c) Different sizes of motile sex organs	d) Same size of motile sex	_
503. <i>Buxbaumia aphylla</i> is a classical example of	a) banne size of mothe sez	Congains
a) Parasitic bryophyte	b) Saprophytic bryophyte	<u>a</u>
c) Symbiotic bryophyte	d) Nitrogen fixing form	
504. Identify the given figures of algae and select the corr		
oo (1)	cet option	
Air bladder		
Midrib Main axis		
Branches	P	
Holdfast		
A B		
Frond Frond		
	ATTONI	
Stine USE	AHON .	
C D		
a) A- <i>Volvox</i> , B- <i>Chlamydomonas</i> , C- <i>Chara</i> , D-	b) A- <i>Fucus</i> . B- <i>Polysiphol</i>	nia, C- <i>Porphyra,</i> D- <i>Dictyota</i>
Porphyra	-,,,-	,,,
c) A- <i>Fucus</i> , B- <i>Dictyota,</i> , C- <i>Porphyra</i> , D- <i>Polysiphonia</i>	d) A- <i>Dictvota</i> . B- <i>Porphyi</i>	ra. C- Fucus. D- Polysinhonia
505. Mosses and ferns are found in moist and shady place		u, c 1 ucus, 2 1 c., c.p
a) Require presence of water for fertilization	b) Do not need sunlight fo	or nhotosynthesis
c) Depend for their nutrition on microorganisms,	d) Cannot compete with sun-loving plants	
which can survive only at low temperature	a) camiot compete with s	an loving plants
506. Elater mechanism or spore dispersal is exhibited by		
a) Riccia b) Funaria	c) Liverworts	d) Marchantia
	•	и) мигенинии
507. Which of the following can be regarded as seedless v	=	d) Dtoridonbrytos
a) Angiosperms b) Gymnosperms	c) Bryophytes	d) Pteridophytes
508. Fern gametophyte shows nature.	-) H-4	J) M C + 1
a) Homothallic b) Fragmentation	c) Heterothallic	d) None of these
509. The peculiar feature of <i>Marchantia palmata</i> is	1) D	. 1
a) Absence of gemma cup	b) Presence of androgynous receptacles	
c) Absence of eaters	d) All of the above	
510. Chlorophyll- <i>a</i> , chlorophyll- <i>d</i> and phycoerythrin are		
a) Phaeophyceae b) Xanthophyceae	c) Chlorophyceae	d) Rhodophyceae
511. Ramenta is the characteristic of		
a) Marchantia b) Funaria	c) Dryonteris	d) None of these

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structure

512. Sperm of Cycas is a) Multiflagellated and very large b) Small and biflagellated c) Multiflagellated and small d) Large and biflagellated 513. Archegoniophore is present in a) Chara b) Adiantum c) Funaria d) Marchantia 514. In Pinus, male cone bears a large number of a) Ligules b) Anthers c) Microsporophylls d) Megasporophylls 515. Which one pair of examples will correctly represent the grouping spermatophyta according to one of the schemes of classifying plants? a) Rhizopus, Triticum b) Ginkgo, Pisum c) Acacia, Sugarcane d) Pius, Cycas 516. Read carefully the following statements about pteridophytes I. They are called vascular cryptogams II. They produce spores rather than seeds IIII. They are used for medicinal purposes IV. They are used as soil binders V. They are frequently grown as ornaments Which of the statements given above are correct? a) I, II and V b) II, IV and V c) II, III, IV and V d) I, II, III, IV and V 517. Corolloid roots are found in b) Pteridophytes a) Bryophytes c) Gymnosperms d) Angiosperms 518. Leaf in young condition in fern is called a) Scale leaf c) Circinate ptyxis d) None of these b) Sporophyll

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